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# YEAR BOOK *1931*

**GRAHAM & ROSS SEED & FEED CO.**  
EVERYTHING FOR THE POULTRY FANCIER AND GARDENER  
**GREAT FALLS, MONTANA**

"Old Timers" coming into our store like to brag that they have been customers of GRAHAM & ROSS since 1886—when Dick Graham and John D. Ross first started in the fuel and feed business. They like to tell about the delivery system which consisted of a bicycle and a horse and wagon. Then they will compliment us on our growth, and probably tell us that they knew the contractor who built our store and office on Sixth Street and First Avenue South. That was in 1915. These people usually end up with something like this—"Well, John D. certainly deserves his success. He's worked hard all his life, has been a square shooter and a friend to all. More power to him."



**Over 35 Years**  
**Competent**  
**Personnel**  
**Increased**  
**Service**  
**High Ideals**  
**Able Assistance**

In 1886 GRAHAM & ROSS were located in the old mill on First Avenue North and the Missouri River. In 1915 we built our retail store building and office building on Sixth Street and First Avenue South. Our mill, coal chutes, garages, etc., are located on Eighth Avenue North and Sixth Street and cover over six city blocks.

Mr. "Dick" Graham retired in 1917. The company re-organized and Donald R. Ross became General Manager. Our growth continues. Our business increases, because we try to serve the best of all products we handle and insist upon your entire satisfaction "always."

We wish to assure you that your orders and good will have always been appreciated, and it shall be our constant aim and purpose to merit your continued confidence.

To our new customers we extend a cordial welcome, and assure you that we will endeavor to handle your orders to

your entire satisfaction, and will appreciate the opportunity of serving you.

With every good wish for Happiness and Prosperity throughout the new year, we are,  
 Very truly yours,

GRAHAM & ROSS MERC. CO.  
 John D. Ross, Pres.

## HOW TO ORDER

Your Name and Address should be plainly written, and you should state whether you want your merchandise to come by mail, express or freight.

C. O. D.—Merchandise will not be sent C. O. D. unless 25% of the value of the order is enclosed. It costs extra for C. O. D. shipments as a fee of 12c is charged by the express company or post office.

INSURANCE—We are not responsible for goods after being delivered to post office or general carrier. If you want your order insured add the following rates to your remittances:

Up to \$5.00.....5c	From \$25.00 to \$ 50.00....10c
From \$5.00 to \$25.00.....8c	From \$50.00 to \$100.00....25c

SMALL ORDERS—If you want only a single packet of vegetable or flower seeds, do not hesitate to order it. We take as much pains with the small orders as we do with the large ones. Small orders for "X-L" HI-GERMINATING seeds are sure to grow larger.

KEEP A COPY OF YOUR ORDER and check goods when received. We use the greatest care in filling orders, but in spite of all, mistakes will occur. If so, kindly notify us immediately and the same will be promptly rectified.

## PARCEL POST RATES

	First Lb. or Fraction	Each Additional Lb. or Fraction
FIRST ZONE—Within 50 miles of Great Falls.....	7c	1c
SECOND ZONE—Within 50 to 150 miles of Great Falls.....	7c	1c
THIRD ZONE—Within 150 to 300 miles of Great Falls.....	8c	2c
FOURTH ZONE—Within 300 to 600 miles of Great Falls.....	8c	4c
FIFTH ZONE—Within 600 to 1,000 miles of Great Falls.....	9c	6c

WEIGHT LIMIT—Packages are subject to a maximum weight in the first, second and third zones of 70 lbs.; in all other zones of 50 lbs.

PARCEL POST C. O. D.—Packages may be sent C. O. D. at an extra expense of 12c, which amount is added to the order.

## OUR GUARANTEE TO YOU

We guarantee every article in this catalog to be EXACTLY as pictured and described, and we will refund the purchase price if found otherwise. We guarantee all seeds to be true to name and description and to carry the official state germination and purity test.

Success in gardening and farming depends largely upon soil, cultivation and climatic conditions over which we have no control.

THE GRAHAM & ROSS MERCANTILE COMPANY gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants it sells, and will not be responsible for the crop.

If goods are not accepted on the above terms, notify us at once, and we will give instructions for disposition of goods.



Over



# SCOTT'S

## Utility Beauty

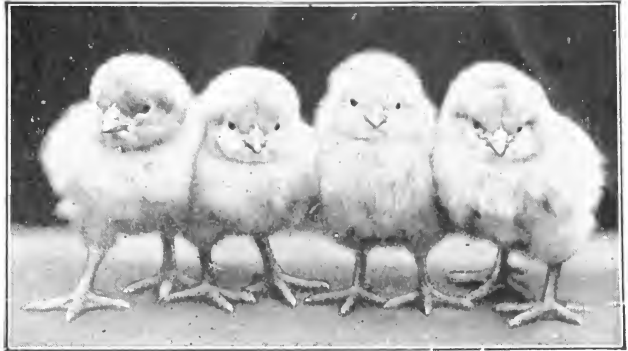
# CHICKS

### ANNOUNCEMENT

Our customers will be pleased to know we have arranged with the Scott Chick Hatchery Inc. to supply us with chicks. This modern electrically equipped hatching plant is located in our own store building. Orders mailed direct to us will receive immediate and careful attention.

### THIRTY YEARS' EXPERIENCE FREE

Manager J. R. Scott is the pioneer trapnest breeder and hatcheryman of Montana. This experience is passed on to you FREE through the purchase of these sturdy, well bred, healthy chicks.



### PROFITABLE PARENT STOCK

The value of baby chicks may be determined by the ability of the parent stock to pay a profit. Every breeding bird is personally selected by Mr. Scott whose ability as a breeder is established. Scott's "Utility Beauty" strain White Leghorns have been recognized as one of the leading strains of large sized Leghorns of the northwest for twenty years.

## Read the Following Unsolicited Testimonials

Deer Dodge, Mont.,  
Nov. 5, 1930.

In regard to the chicks you sent me I will say they certainly turned out fine. I bought Mrs. Berg's pullets. She got the chicks from you. I showed the Reds and Leghorns both in the open classes at the State Fair and made a fine winning. Also won at the Western Montana Fair at Missoula, 11 firsts, 4 seconds, 3 thirds and 1 fourth. Part of these were in the 4-H Club. In the Powell County Junior Industrial Show I won 18 firsts, 6 seconds, 3 thirds, 2 fourths. We are going to have a show in December and would appreciate your offering a special prize.

Sincerely yours,  
DON VALATIN.

(Will surely offer a prize at your show, Don.—J. R. S.)



J. R. SCOTT  
Who has devoted more  
than 30 years to practical  
poultry breeding.

Havre, Mont.  
April 11, 1930.

I want to express my heartiest thanks for the baby chicks and extras. They are the finest lot I have had since the first batch I got from J. R. Scott, five years ago. I raised 207 out of an order of 200 chicks.

MRS. JENNIE HALLGREN.

Toston, Mont.  
April 5, 1930.

The 500 chicks arrived in fine condition. They must have been selected from a large bunch to get them so nice and even. We gathered 182 eggs yesterday from the yearlings purchased as chicks last year from you. I think that is about as good as they get to be.

Yours respectfully,  
WILLIAM KITTO.

## REASONABLY LOW PRICES

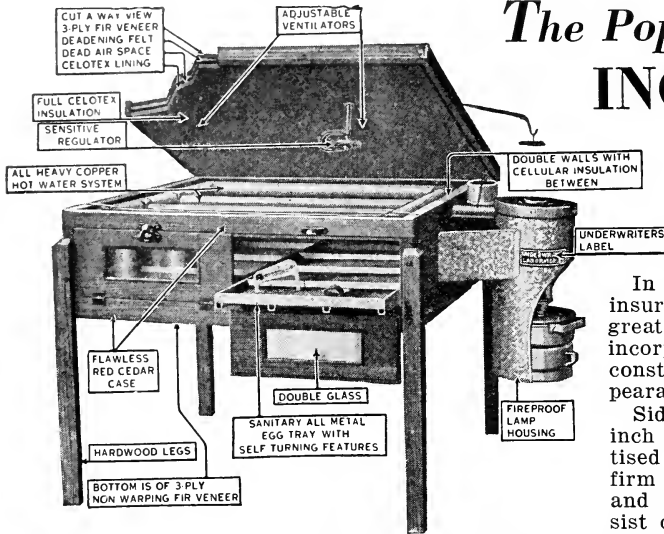
Price is a consideration in every purchase. At the same time a low first cost in baby chicks is many times very expensive. Two or three cents added to the cost of a production bred, profit laying pullet is a saving compared with a low priced, non-producing, ill bred bird. Scott's "Utility Beauty" chicks are produced just as cheaply and sold just as reasonable as quality chicks of the same grade can be sold by any hatchery.

### PRICE PER CHICK, EXPRESS PREPAID

S. C. White Leghorns				R. I. Reds Barred Rocks		White Rocks White Wyandottes Buff Orpingtons		Jersey Black Giants
No. Chicks	Feb. 1st to May 1st	May 1st to June 1st	June 1st to July 15th	Feb. 1st to May 15th	May 15th to July 15th	Feb. 1st to May 15th	May 15th to July 15th	All Season
1,000	\$0.15	\$0.13	\$0.12	\$0.16	\$0.14	\$0.17	\$0.15	.....
500	.15½	.13½	.12	.16½	.14½	.17½	.15½	\$0.18
300	.16	.14	.12½	.17	.15	.18	.16	.19
100	.17	.15	.13	.18	.16	.19	.17	.20
50	.18	.16	.14	.19	.17	.20	.18	.21
25	.19	.17	.15	.20	.18	.21	.19	.22

### MIXED HEAVIES—Orders Filled in Rotation

Advance notice given as early as possible.  
Feb. 1st to May 15th, 25 chicks, \$4.50; 50 chicks, \$8.50; 100 chicks, \$16.00; 300 chicks, \$46.50; 500 chicks, \$75.00; 1,000 chicks, \$140.00.  
May 15th to July 15th, 25 chicks, \$3.75; 50 chicks, \$7.25; 100 chicks, \$14.00; 300 chicks, \$40.50; 500 chicks, \$65.00; 1,000 chicks, \$120.00.



## The Popular MAKOMB INCUBATOR

### With 1931 Improvements

In addition to operating features that insure the most efficient incubation and greatest convenience, MaKomb Incubators incorporate the highest grade of cabinet construction, giving them both the appearance and durability of fine furniture.

Side, top, bottom and end rails of 2-inch first grade, clear lumber are mortised and tongued together, affording firm and permanent seats for all hinges and other attachments. The sides consist of a double wall of Redwood, with

Celotex insulation between. A heavy top molding secures the Redwood panel top which is also Celotex insulated. Moisture and air are regulated with precision by improved methods.

## Metal Egg Trays With Automatic Turning Device

The doors are hinged at the bottom, permitting the nursery tray to be withdrawn without disturbing the egg tray.

Heavy 10-ounce copper insures a rugged heating system which is constructed on the exclusive MaKomb two-piece design. Boilers are oversize with outside baffles.

## Price

	Shipping Weight	Retail Price
150	108	\$19.25
300	141	24.95
450	162	34.00
600	224	49.95
900	324	71.50
1200	448	99.75

The first three sizes are carried in stock at Great Falls, and the last three sizes, namely, 600, 900 and 1200, are priced f. o. b. Eastern factory.

## The "MAKOMB GIANT" Coal Brooder

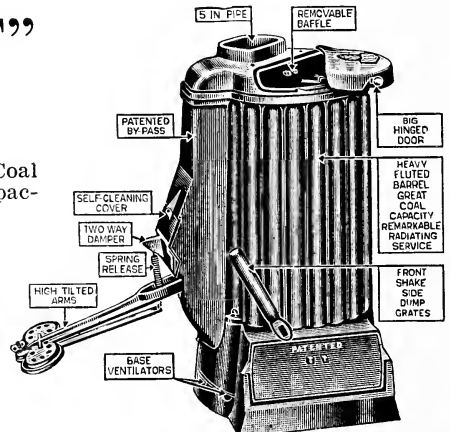
The three requirements for the ideal brooder is Coal Capacity, Control and Convenience. "MaKomb" coal capacity is 30 to 40 per cent greater by actual test.

### Soft Coal Handles Like Hard Coal in the 1931 MaKomb Giant

With the patented BY-PASS CONTROL found in no other brooder, high winds blow without effect because the check damper when open pulls all the draft from the ash-pit through the by-pass and not through the fire. This absolutely prevents the fire running away. It takes this patented by-pass to handle soft coal perfectly.

### Read These Superiorities

Largest Actual Coal Capacities—42 in., 35 lbs.; 52-in., 52 lbs.; 62-in., 73 lbs.  
By-Pass control—Patented, superior.  
Removable Baffle Plate—Easy to clean.  
Exclusive Tilting Canopy—A revelation in convenience.  
Five-inch Stove Pipe—None bigger.  
One-piece Barrel—No joints, gas-proof.  
Heavy Rocker Grates—Large in area.



## Giant Specifications

	Chick Capacity	Coal Capacity	Price Each
47 in. Giant	350	35 lbs.	\$16.50
56 in. Giant	600	52 lbs.	21.00
65 in. Giant	800	73 lbs.	24.95

Add freight or express.

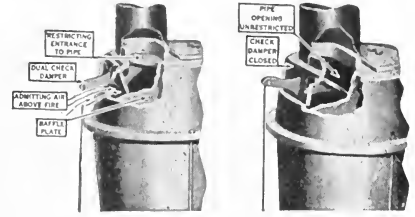
All Giant Brooders Furnished With Reinforced Canopy

# Get An Even Temperature With The MAKOMB STANDARD COAL BROODER

## Automatic Double Damper Control

**Construction:** Best Gray Iron throughout, guaranteed against flaws. Check the weight of the Standard against all others in its class. Canopies are accurately die cut in 28 gauge galvanized steel, heavily ribbed for stiffness. The canopy ring is heavy drawn steel instead of the usual fragile cast iron.

**The Superior Damper:** A glance at the accompanying illustration will show how superior the checking action of the patented damper is to designs not sponsored by MaKomb. When the stove is being forced, the lower damper is wide open admitting air under the grates while

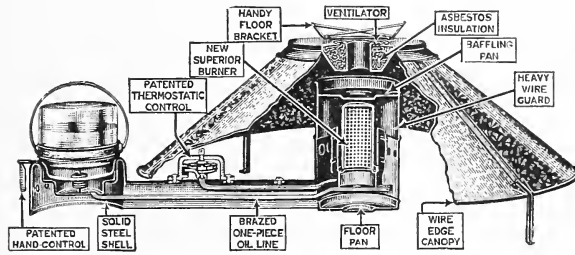


the upper or check damper is closed. Note that this check damper really consists of two dampers cast together and acting as a unit.

### SPECIFICATIONS AND PRICE LIST

Canopy Diameter (inches) . . . .	42	52	62
Stove Pipe Size (inches) . . . . .	5	5	5
Actual Coal Capacity (lbs.) . . . .	30	43	55
Actual Chick Capacity . . . . .	350	600	800
Weight Stove Uncrated (lbs.) . . .	85	97	110
Diameter of Grates (inches) . . . .	9	9	10½
List Price . . . . .	\$14.85	\$19.00	\$22.00

Add freight or express.



No longer is there any danger of the flame going out. On warm days there will be no generating of heat—but the pilot light will always be on guard to bring back heat with a rush should temperatures drop.

### THE IDEAL BURNER

This new model brooder is the most modern expression of recent advances in Blue Flame Oil. It is completely guarded—sparks cannot escape—oil cannot reach the floor or litter. Below the burner is a pan one inch deep. Around it is the steel shell and above it the closely woven heavy wire screen and deflecting pan.

### PERFECTED THERMOSTATIC CONTROL

The entire burner is raised or lowered by the action of two brass thermostatic wafers according to any change in temperature. Finely adjusted so that the least change in temperature immediately changes the flame. Absolutely automatic in action.

## The KER-O-STAT Automatic Oil Brooder

The only successful automatic blue flame brooder

### SIZES AND PRICES

Size Canopy	Chick Capacity	Weight	Price
32 in.	300 day old chicks	36 lbs.	\$14.00
42 in.	500 day old chicks	56 lbs.	15.50
52 in.	1000 day old chicks	51 lbs.	17.95

(The price on the 32 in. canopy is prepaid. The other two sizes must be shipped by freight or express.)

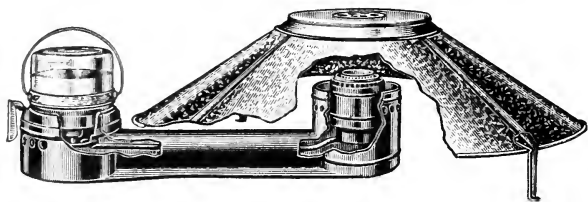
### \$9.95 AUTOMATIC OIL BROODER \$9.95

Due to a very fortunate purchase that we made we are pleased to offer to our customers an automatic oil brooder at the unheard of price of \$9.95. This brooder carries all the features that has made the KER-O-STAT so popular with the exception of the Pilot Light.

Size Canopy	Chick Capacity	Weight	Price
32 in.	300 day old chicks	34 lbs.	\$ 9.95
42 in.	500 day old chicks	50 lbs.	12.25

### THINK OF YOUR POULTRY WHEN BUYING SEEDS,

and plant a few rows of Chicken Lettuce, Chicken Radish or Mangel Beets. It will pay you well during the winter months in increased egg production.



## SIMPLICITY OIL BROODER

We believe that the outstanding Blue Flame Brooder value in America is undoubtedly the 1931 MaKomb Simplicity.

**Construction:** Canopy—made of heavy galvanized steel, die cut to set up perfectly. Outer edge stiffened with heavy steel wire. Also equipped with ventilator.

**Special Blue Flame Burner**—needs no priming and generating. Equipped with new pilot light which permits the brooder to be turned off during warm days, and started again at night without touching the canopy or burner drum.

No valves and sliding joints; patented control.

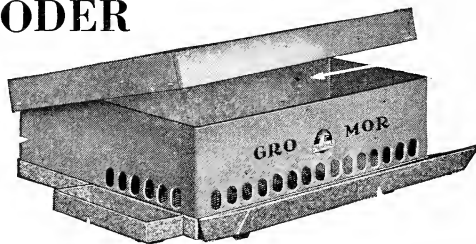
Size Canopy	Day Old Chick Capacity	Weight	Price
32 in.	300	34 lbs.	\$ 9.45
42 in.	500	38 lbs.	11.95
52 in.	900	51 lbs.	13.90

Add Postage.

## MAKOMB GRO-MOR BROODER

A low-priced Primary Brooder—fibre box and wire screen floor made durable, water-proof, and equipped with feed and water pans. The box is removable and can be replaced at nominal cost. Inside dimensions are 20"x24" by 7½" high, giving ample head room for chicks 3 to 4 weeks old.

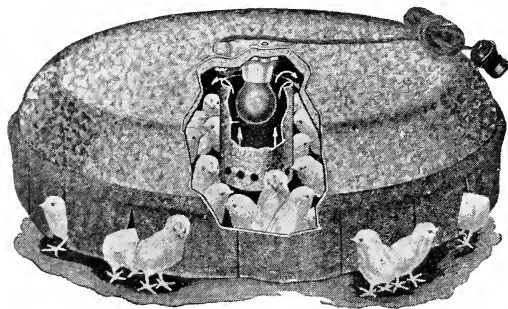
The illustration shows all details of construction excepting the optional electrical equipment, which consists of ten feet of cord, porcelain socket terminal plug, and circulating drum to enclose the bulb. (Bulb not furnished.)



### Gro-Mor Specifications

	Shipping Weight	Price Each
20x24" Gro-Mor Electric Brooder.	.8 lbs.	\$2.65

Add Postage.



Chick Capacity	Shipping Weight	Price Each
80	8 lbs.	\$3.50
130	16 lbs.	6.00

Add Postage.

## Graham & Ross

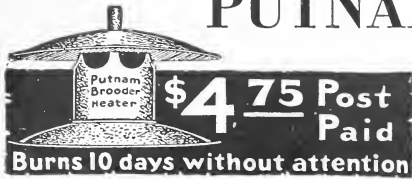
### Junior Electric Brooder

For small flocks, our Junior Electric Brooder is practical and economical. For general use a 25-watt bulb provides ample heat, and with outside air touching freezing, a 40-watt bulb will maintain brooding temperatures. A galvanized steel drum encloses the bulb, preventing glare and producing steady circulation of the air throughout the brooder. The shell, or canopy, is insulated with highly finished Masonite, which withstands long and hard use.

## Special Notice

Folks, if you are interested in a larger size brooder than we have listed, let us know, as we are in position to furnish you with the latest in large, automatic electric, gas and distillate burning brooders. We have obtained the state rights from the world's largest manufacturer of brooders and are in position to save you money. WRITE for free catalog on brooders.

# Make Your Own Brooder With a PUTNAM BROODER HEATER



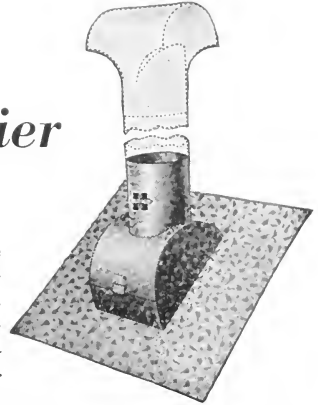
Price each, \$4.75 postpaid.  
Postpaid prices of parts of Putnam  
Brooder Heater: Top, \$2.50; Tank, \$1.50;  
Burner, \$1.25; Wick Holder, 20c; Wicks,  
40c per doz., postpaid.

The putnam brooder heater is a very popular one for home made brooders. Used with a box, approximately 32x16x10, it furnishes brooding capacity for from 35 to 60 chicks. Easy to set up and operate. Burns 10 days with one filling of oil and without any further attention. Full directions for making your own brooder furnished with each stove.

## Makes Brooder Stove Installation Much Easier

### ADJUSTABLE ROOF SADDLE

For brooder stove pipe, made of galvanized iron and adjustable to any required angle from flat roof to 30 degree pitch. Easily adjusted to desired angle where it may be locked rigidly in position. Small end of regular pipe is slipped underneath the saddle and as many lengths as desired placed on top. Pipe and pipe cap shown in phantom not included. Storm and rain proof. Packed one in carton. Shipping weight 6 pounds. Price \$1.65.

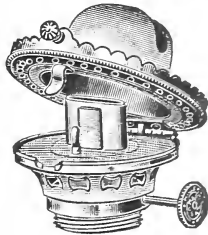


## INCUBATOR AND BROODER SUPPLIES

### "SUN" HINGED LAMP BURNERS

For incubators and brooders. So designed that perfect combustion is assured. Easily cleaned and trimmed.

Size	Diam. of Cone	Wick	Each Post-paid
1	2½ in.	5/8 in.	\$0.40
2A	2 7/8 in.	7/8 in.	.50
2B	3 1/8 in.	7/8 in.	.55
3	3½ in.	1½ in.	.75



### RED FELT LAMP WICKS

High grade felt wicks. A big improvement over loose woven cotton wicks. No loose threads to burn uneven and smoke.



No.	Width	For Burner	Each	Per Dozen
No. 1.....	5/8	1	\$0.03	\$0.25
No. 2.....	7/8	2	.05	.45
No. 3.....	1½	3	.06	.55

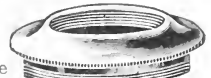
Postpaid prices.

### DOUBLE WICK SUN HINGE BURNERS

No. 214—Sun Hinge Burner with two wick tubes. Gives double the heat of a single wick burner. Perfect combustion, and easily cleaned and trimmed. Made of heavy brass throughout. Size 3. Diameter of thread 1¼ in. Diameter of cone 3½ in. Size of wicks 1½ in. Each, 75c, postpaid.

### Expanding Screws

Made of brass to increase size of burner on oil fount.



No.	Increase Bowl From Size	Postpaid Price
No. 206	1 to 2	\$0.10
No. 207	2 to 3	.15

### LAMP BOWLS



Heavy galvanized iron bowls. No give or spring to tops. A common fault with ordinary bowls.  
No. 100—Size 1 burner, 1½x6 in., each.....\$0.55  
No. 101—Size 2 burner, 2¼x6¾ in., each......65  
No. 102—Size 3 burner, 2¾x8 in., each......80

Postpaid prices.

### LAMPS COMPLETE

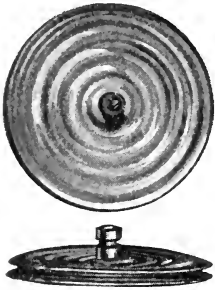
No. 1—With 5/8 wick.....	\$1.20
No. 2—With 7/8 wick.....	1.50
No. 3—With 1½ wick.....	1.85

Postpaid prices.

### PIPE DAMPERS

To be used in the stove pipe of coal burning brooders where a large amount of pipe is necessary, thereby reducing the draft.  
Size Weight Price  
5-in. 1 lb. 20c





### WAFER THERMOSTATS

For Brooders and Incubators, brass throughout, fully tested.

No.	Size	Postpaid Price
297	3 in.	\$0.55
298	4 in.	.80
299	5 in.	1.00

NOTE—When ordering state whether for brooder or incubator.

### ZENITH LAMP BURNER

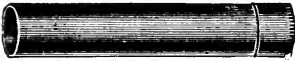
A "No Chimney" burner for incubators, brooders, fountain heaters, etc. Perfect combustion without chimney.

No. 1— $\frac{5}{8}$  inch wick, each, 50c, postpaid.  
No. 2— $\frac{7}{8}$  inch wick, each, 65c, postpaid.

### SMOKE PIPE FOR BROODER STOVES

Black sheet iron, made in 2 foot lengths.

Size	Length	Weight	Price
4 in.	2 ft.	2 lb.	\$0.30
5 in.	2 ft.	3 lb.	.33

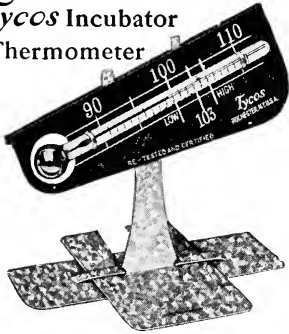


### CORRUGATED ELBOWS

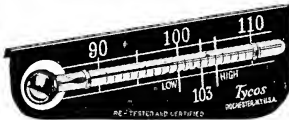
No. 115—Black, 4 in., each, .....\$0.33  
No. 115A—Black, 5 in., each, ..... .37

No. 5783

*Tycos* Incubator Thermometer



When used with Stand



When used without Stand

### Incubator Hygrometer

Millions of chicks die in the shell every year for the want of proper moisture conditions. The Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$1.75, postpaid.



### "Tycos" Certified Incubator Thermometer POSTPAID \$1.43

Worth the slight additional cost. Retested and Certified. Makes doubly sure. Can be used to test other thermometers. Black scale and white figures, and every single degree graduation engraved directly on the glass tube. Complete with certificate of inspection and extra stand. Postpaid, \$1.43.

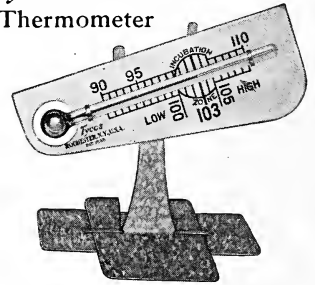
### "TYCOS" INCUBATOR ZONE THERMOMETER

POSTPAID 99c

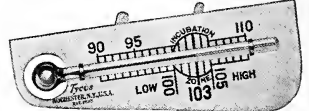
New scale face clearly defines the safe temperature limits for incubation. White scale with black graduations makes for easy reading. Non-tipping stand, first quality mercury. 99c each, postpaid.

No. 5776

*Tycos* Incubation-Zone Thermometer



When used with Stand



When used without Stand

### BROODER THERMOMETER

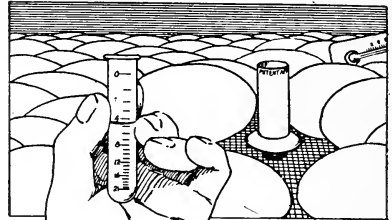
Our No. 720 Brooder Thermometer is designed to go through the top of the brooder or hover so that the temperature can be read from the outside. The tube is sunk in the wood to guard against breakage. Black oxidized brass scale with white figures and guard. Furnished with mercury tubes only. Each, 75c, postpaid.



### METAL CHIMNEYS

For incubators and brooders. Made of sheet of steel, with round mica window.

No.	Height	Will fit Burner No.	Price
No. 103	6 in.	2	\$0.25
No. 104	6 in.	3	.30



**MEASURE**  
THE EVAPORATION  
IN YOUR INCUBATOR  
with the  
**MOISTURE GUIDE.**  
IT "SOLVES THE MOISTURE PROBLEM"

The Patterson & Young

### INCUBATOR MOISTURE GUIDE

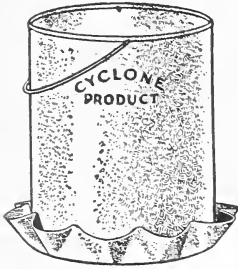
#### *Solves the Moisture Problem*

Guaranteed scientific, accurate, practical. Indorsed by Agricultural Colleges, Experiment Stations and thousands of incubator users. Adopted by incubator companies as equipment. Bigger hatches, better chicks; easier to raise. Works in any incubator. Attachments and instructions with each guide. (Beware of incomplete, inaccurate imitations.) \$1.00 each; \$10.00 per dozen, postpaid.



# BABY CHICK SUPPLIES

## "CYCLONE" TWO PIECE WATERERS



Here is a practical moderate priced fountain. The unique bottom snaps quickly on and off cylinder, keeps small chicks out of water yet is readily accessible for the large fowls. Bottom fits tightly to cylinder, preventing slopping when inverting. Ball is made of heavy No. 10 wire.

Size	Weight	Price
1 gal.	3 lbs.	\$0.60
2 gal.	4 lbs.	.80

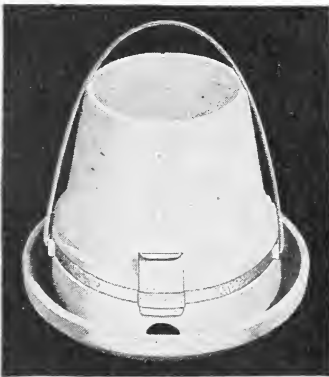
## HANDY FILL CHICK FOUNTAIN

Made of heavy galvanized iron in two pieces. The top is made with two-way swinging bail which permits fountain to be carried either filled or in filling position. The one-piece drinking pan with smooth rolled edge is especially designed for small chicks, yet provides a sufficient amount of water and drinking space for full grown fowls. No other fountain on the market with these desirable features. Easy to fill. Easy to clean.

No.	Size	Weight	Price
C2	2 gal.	4 lbs.	\$1.20
C3	3 gal.	7 lbs.	1.50



## AN IMPROVED STONE FOUNTAIN



A really practical stoneware fountain, far superior to the usual types. This fountain can be set down to fill; bottom pan has a convenient rim for handling and the jar has a handle. The sloping sides and wide mouth make this fountain feed heavy clabber perfectly. Constructed of the best grade stoneware glazed inside and out.

Size, ½ gal. Weight, 2 lbs. Price.....\$0.85

## MASON JAR FOUNTAIN AND FEEDER

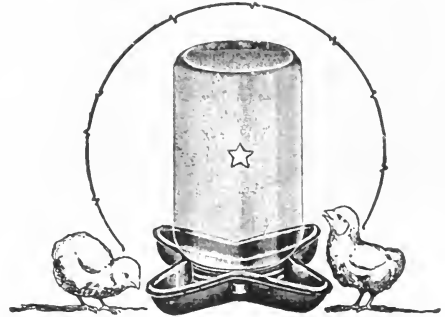


This new type feeder or fountain is constructed so that an abundant of water is always in the pan and will not overflow. Any pint, quart or 2-quart standard Mason jar will fit this fountain. Furnished in either galvanized or charcoal tin. The charcoal tin can be used for feeding buttermilk, sour milk or medicine. Jars not furnished.

No.	Construction
G25	Galvanized
T25	Charcoal Tin

Postpaid Price
15c each, 2 for 25c
20c each, 2 for 35c

## STAR FOUNTAIN

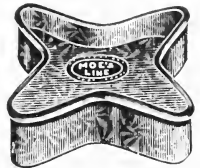


Quickly screwed to a Mason jar and provides a greater drinking surface than the ordinary round fountains. Price, 15c each; 2 for 25c, postpaid. Mason jar not furnished.

## STANDS FOR STAR FOUNTAINS

This stand will raise the fountain up out of the litter, making it suitable for growing chicks.

Each, 10c, postpaid.



## BOTTOM FILL FOUNTAIN

Made from heavy galvanized steel, two-piece, cone shape, easily filled and cleaned.

No.	Capacity	Weight	Price
B2	2 qts.	1 lb.	\$0.30
B4	1 gal.	2 lbs.	.45



## EASY FILL FOUNTAIN

5-Qt. Capacity.

Made from heavy galvanized iron or from heavy charcoal tin plate. The latter is suitable for buttermilk feeding and is acid proof and non-poisonous. Sloping cover prevents roosting. Watering trough especially designed for baby chicks. Easy to fill and clean.



No.	Construction
C1G	Galvanized
C1T	Charcoal Tin

Weight	Price
3 lbs.	\$0.75
3 lbs.	1.15

## CHICK FEED TROUGH



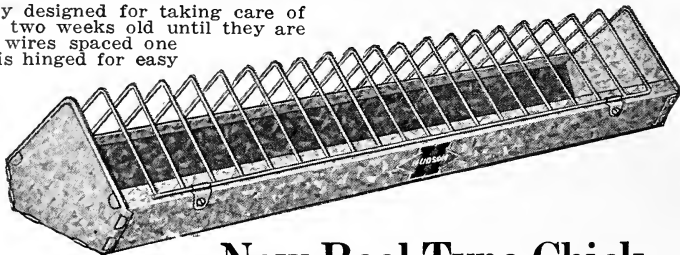
Suitable for day old to six weeks old chicks. Easily filled and cleaned. V-shaped bottom and flanged edge prevents waste. Guard adjustable for size of chicks.

No.	Length	Weight	Price
OF18	18 ins.	1 lb.	\$0.50
OF30	30 ins.	2 lbs.	.45

## Graham & Ross Chick and Broiler Feeder

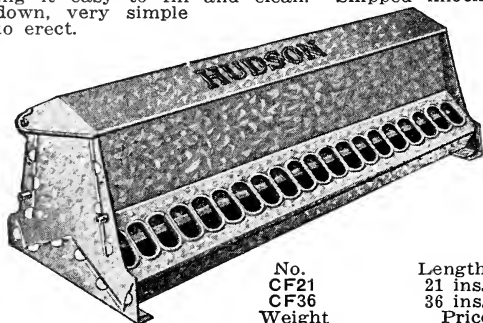
This new feed trough is especially designed for taking care of large numbers of chicks from about two weeks old until they are ready for the broiler market. Grill wires spaced one and three-eighths inches apart and is hinged for easy cleaning and filling.

No.	Length	Weight	Price
G30	30 in.	5 lbs.	\$1.25
G48	48 in.	8 lbs.	1.65



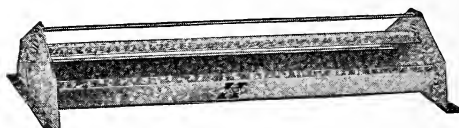
## Large Capacity Feeder

Designed for baby chicks and growing birds. Deep feeding trough, 9½ inches wide covered with a hinged grill. Keeps baby chicks out of feed and prevents waste. For large chicks, grill can be swung and locked into upper position. Cover hinged, making it easy to fill and clean. Shipped knocked down, very simple to erect.



No.	Length
CF21	21 ins.
CF36	36 ins.
Weight	Price
6 lbs.	\$1.10
9 lbs.	1.80

## New Reel Type Chick Feeder

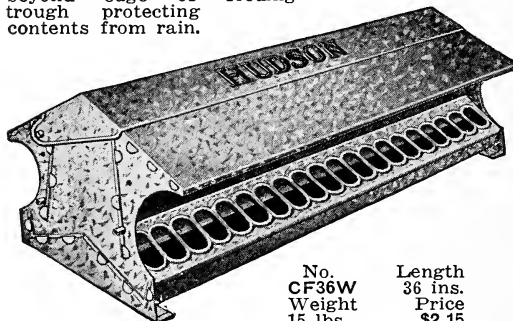


This new type feeder provides a large capacity and a lot of feeding space at a reasonable price. Provided with automatic revolving reel, so balanced that it revolves at the slightest weight placed upon it, thereby keeping chicks from roosting or getting into the feed.

No.	Length	Weight	Price
R12	12 in.	2 lbs.	\$ .25
R24	24 in.	3 lbs.	.50
R36	36 in.	3 lbs.	.75

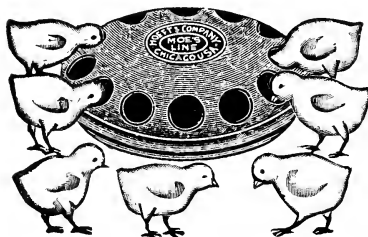
## Outdoor Large Capacity Feeder

Of the same construction as our CF36 with the addition of a wide rain cover which projects well beyond edge of feeding trough protecting contents from rain.



No.	Length
CF36W	36 ins.
Weight	Price
15 lbs.	\$2.15

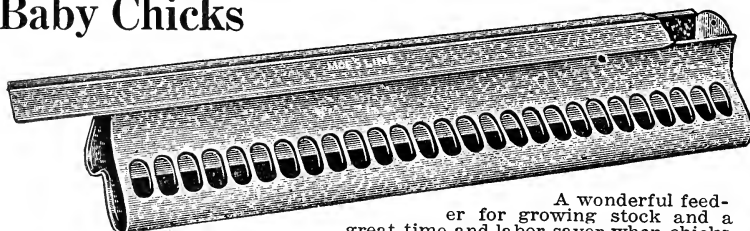
## Diamond G Round Chick Feeder



These round hole chick feeders are excellent for either dry or liquid feeds. They are raised at the center to throw the feed to the outside so all of it can be reached by the chicks.

No. A12, 12 holes. Each, 24c; postpaid 30c. Two for 50c, postpaid.

## Large Capacity Feeder for Baby Chicks



A wonderful feeder for growing stock and a great time and labor saver when chicks are raised in large numbers. Sliding top cover, easy to fill and clean, and birds cannot roost on the cover or sides to foul the feed. Length 35 in., width 8½ in., height 7 in., capacity 17 quarts. 54 chicks can feed at one time. No. 141, weight 8 lbs., each \$1.90.

## Automatic Chick Greaser

The new way to rid your baby chick flock of the harmful head lice. The wick around the upper part of the greaser is saturated with oil (a mixture of two-thirds lard and one-third kerosene) and every chick which eats out of the pan will get its head greased in a few minutes. No. G-31. Each \$1.75, postpaid.



## STOP TOE PICKING

Be sure to have a supply at chick time



**Poultrymen from CALIFORNIA TO FLORIDA ARE USING**

**F. E. CHICK PICK**

TO STOP TOE, WING AND BODY PICKING OF CHICKS

THE GREATEST THING EVER OFFERED TO OVERCOME CANNIBALISM THERE IS NOTHING LIKE IT

THIS BLOOD COLORED OINTMENT QUICKLY BREAKS PICKING HABIT

**Effective Harmless Healing**

**Frizelle, Eales & Co. COTATI CALIF.**

FEED STORES & HATCHERIES from Coast to Coast.



A new common sense treatment for controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. Easy to apply. As soon as toe or tail picking is noticed, apply the ointment FREELY to birds that are being picked. The taste is unpleasant but harmless, and the ointment heals chicks and will soon break them of picking.

Per 1/2 lb. pkg. ....\$0.70

Per 1 lb. pkg., postpaid ..... 1.10

Add postage.

## Rabbit Feeders



Glazed, all white. Has inside rim to prevent rabbits from wasting feed.

Size	Wt.	Price	Price
Diam.	Lbs.	Each	Doz.
5 1/2 in.	1 1/2	\$0.25	\$2.50
7 1/2 in.	2 1/2	.35	3.50

## Rabbit Waterers

Glazed all white, concave bottom prevents bursting from freezing. Extra heavy.



Size	Wt.	Price	Price
Dia.	Lbs.	Each	Doz.
6 in.	4	\$0.25	\$2.50

Read What Users Say About Diamond G Starting Mash

Kevin, Mont.

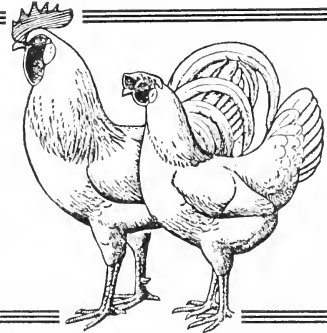
Graham & Ross, Great Falls, Mont. Dear Sirs:

I am writing to tell you how well I liked your Diamond G Brand Starting Mash for Baby Chicks. I found it to be a wonderful feed, saving a person the job of mixing cod liver oil in it. Also it is cheaper than other feeds.

Yours truly,  
MRS. WALTER L. BAKER.

# Poultry Supplies

PRICES POSTPAID



## TESTED AND GUARANTEED DIAMOND G POULTRY PUNCHES

A popular and practical punch for marking baby chicks. Punches a clean hole in web between toes and will not bruise foot. Guaranteed to work perfectly.



No. 38, postpaid, each, 25c.

## IDEAL PUNCH

New improved punch, scissors type; works easily, cuts clean, does not pinch foot. 40c, postpaid.



## MAKOMB CAFETERIA FEEDER



A Non-Clogging rat and vermin-proof giant feeder for grain or dry mash with adjustable throat. Actual capacity is 100 pounds of commercial dry mash, 200 pounds of grain or 2 1/2 bushels. The hinged covers over the feed troughs are always closed until the hens mount the platform to swing them open.

34 lbs., each.....\$7.65

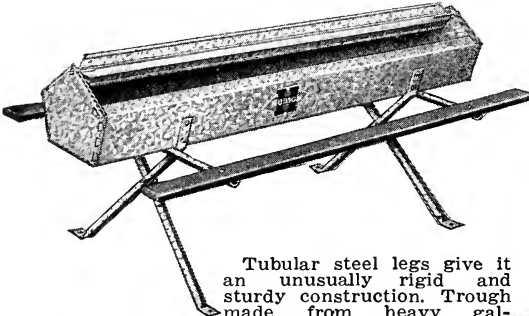
## Our Improved Handy Mash Hopper

These feeders will more than pay for themselves in a short time in saving in mash. The improved curved bottom keeps the feed within easy reach of the birds, and the taper shape of the hopper larger at the bottom—prevents the feed from clogging, and insures a gradual automatic feed. The sloping top prevents them from roosting on the hopper. When both covers are closed it is rat, mouse and weather proof.



No.	Weight	Capacity	Price
35	5 lbs.	10 qts.	\$1.50
36	6 lbs.	14 qts.	2.00
13	9 lbs.	22 qts.	2.35
37	10 lbs.	32 qts.	3.00

## DRY MASH FEEDER REEL TYPE

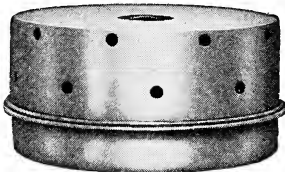


Tubular steel legs give it an unusually rigid and sturdy construction. Trough made from heavy galvanized iron 9 inches wide, 7 inches deep and 48 inches long. Equipped with reel type revolving tumbler bar which prevents birds from getting into trough or roosting. Reel may be removed for filling and cleaning.

No.	Length	Weight	Price
R4S	4 ft.	28 lbs.	\$3.00

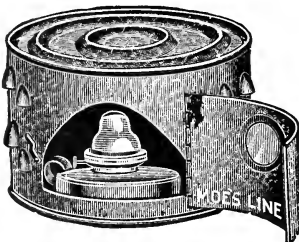
## LITTLE PUTMAN STOVE

A very satisfactory small stove for fountains and home-made oat sprouters. Burns a month without attention. Wind-proof, fire-proof and fool-proof. Will heat a fountain of 2 gallons capacity satisfactorily. Full directions for making your own oat sprouter.



Price delivered to you, \$1.95 each. Wicks for above, each, 4c; doz., 20c., postpaid. Wick and holders, each, 12c, postpaid.

## FOUNTAIN AND BROODER HEATER

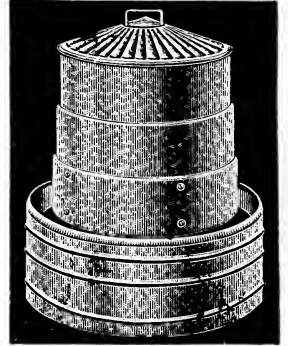


Can be used with all styles of fountains and effectively prevents water from freezing. Makes an excellent heater for small brooders. Lamp fount holds sufficient oil to burn continuously for 7 days. Height 7 in. Weight 5 lbs.

Each, \$1.90

## New—The Diamond G Silo Mash Feeder

At last, a collapsible, round, Dry Mash Feeder. Built like a telescoping drinking cup. This feeder with a diameter of 21 inches, has as much feeding capacity as a rectangular hopper of 45 inches long feeding from both sides. Can be set up in a jiffy, no fitting or matching of parts. Try a "Silo" for satisfaction.



No.	Capacity	Weight	Price
1Z	60 lbs.	16 lbs.	\$3.40
2Z	100 lbs.	22 lbs.	3.90

## DIAMOND G GRIT AND SHELL BOX

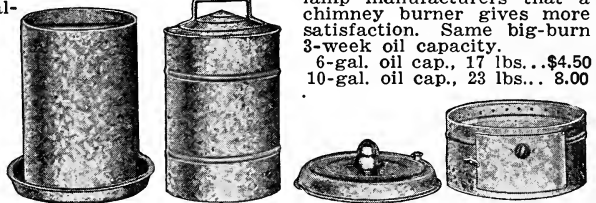
Feeding of grit, oyster shell and charcoal is now recognized as an essential part of the diet to keep fowls healthy and in prime condition. A waste saver and keeps feed in good condition.

No.	Weight	Price
C48	3 lbs.	\$0.90

## The Standard Heated Fountain

These new models are equipped with a chimney burner. Our own tests substantiate the proofs of lamp manufacturers that a chimney burner gives more satisfaction. Same big-burn 3-week oil capacity.

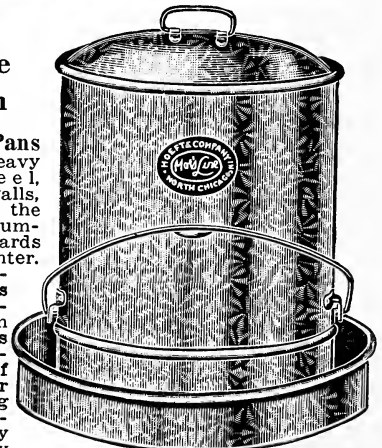
6-gal. oil cap., 17 lbs...\$4.50  
10-gal. oil cap., 23 lbs... 8.00



## Top-Fill Cleanable Fountain

### With Round Pans

Made of heavy galvanized steel, with double walls, which keeps the water cool in summer, and retards freezing in winter. Feeds automatically, no valves to get out of order. Fills from the top, thus avoiding the annoyance of spilling over while being filled. Thoroughly sanitary and as easily cleaned as an ordinary pail.



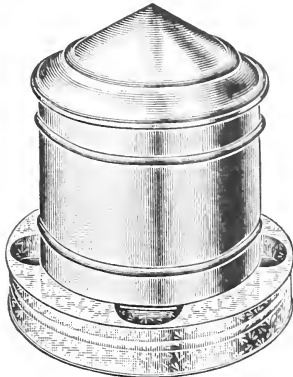
No.	Capacity	Weight	Price
33	2 Gal.	7 lbs.	\$2.60
34	4 Gal.	9 lbs.	3.10

## REPLACEMENT PARTS FOR TOP-FILL FOUNTAINS

Size	Outside Cover Only	Inside Tank and Pan	Postpaid Bottom Pan Only
33	\$1.60	\$1.60	\$0.45
34	1.85	1.85	.45

## THE NEW MAKOMB CLEANABLE "INSOFont" SANITARY STEEL HENS' NESTS

The new Insofont will not spill, splash, overflow. It is highly resistant to freezing. It is easy to carry and handle. High cone top keeps the chicks off. A 4-inch easy acting can top makes filling and cleaning extremely simple. The die drawn bottom pan collects any dirt ready for throwing away when filling.



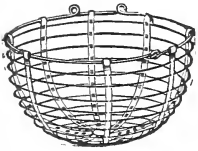
Size Price  
3 Gal.....\$3.75  
Weight, 14 lbs.

Size Price  
5 Gal.....\$4.75  
Weight, 16 lbs.



"Insofont" open.

### WIRE HEN'S NESTS



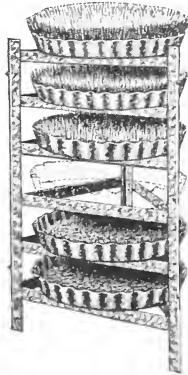
Provides a clean sanitary nest for the setting hen. Easily kept free from vermin. Can be fastened to walls with nails or screw-hooks.

No. 301—Each .....\$0.25  
Weight 1 lb.  
No. 301—Per dozen.....\$3.25  
Weight 9 lbs.

### IMPROVED OAT SPROUTER

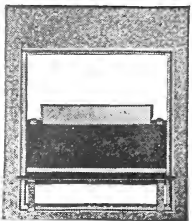
Will pay for itself in a short time in increased egg production. Made of heavy galvanized steel with six pans. Shipped K. D.; very easy to erect.

Directions—Place sprouter near furnace or in room with temperature of 65 or 70 degrees. Use good oats, soak in warm water for 12 hours, then fill trays to depth of one inch. Sprinkle and stir daily until sprouted.

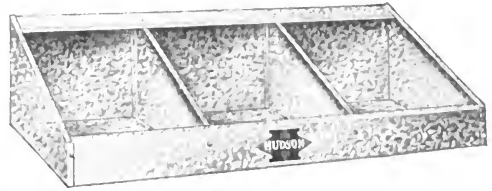


No. 6 Weight Price  
21 lbs. \$3.65

### MAKE EACH CHICKEN PAY FOR ITSELF—CULL OUT THE NON-LAYERS



This is easily accomplished by installing our single front trap nest. You can use this trap nest front on any orange box, small dry goods box, etc. Very efficient but inexpensive. Price, each, 40c; postpaid, 45c. Three for \$1.15, postpaid. Six for \$2.25, postpaid. One doz. for \$4.25, postpaid.



Made of extra heavy galvanized iron, easy to scald and disinfect and is sanitary and vermin proof. Each compartment is 12 inches wide, 13 inches from front to back, 36 inches long and 9 inches high in the back. Sloping top prevents roosting on nests.

No. 3 Weight Price  
16 lbs. \$2.10

### LAYING HOUSE HEATER

Don't expect to shell them out when the laying house is cold and damp. Constructed of heavy galvanized iron with iron base and is so arranged that it can be used with your coal brooder stove. The circulator is so built that a heavy current of air is forced around the stove and out through the house. Base closed tight to keep out litter.

Each .....\$7.85  
Shipped only by freight or express.  
Weight 50 lbs.



### EGG CASE FILLERS

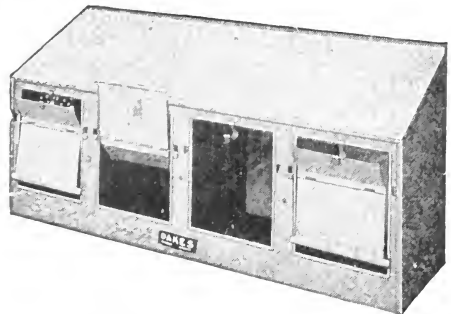
Government standard pasteboard fillers for 30 dozen case. Complete, 30c; postpaid, 40c.

### SECOND HAND EGG CASE

Regulation egg case. Strong, well built but light. All guaranteed in first class condition. Complete with fillers and top. Each, 30c; F. O. B., Great Falls.

### TRAP NEST COMPLETE

Made of light but durable galvanized iron. No cracks or crevices in which lice or mites can hide. Easy to clean or scald. Absolutely automatic. Hangs on wall. Just pull nest out at bottom and dirt fills out.

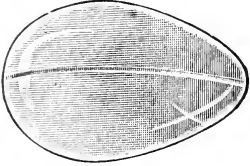


No. C-57—Four compartment nest. Each complete, \$5.19. Weight 30 lbs. Cannot be sent by mail. Write for prices in larger lots.



**EGG SCALES POSTPAID 95c**

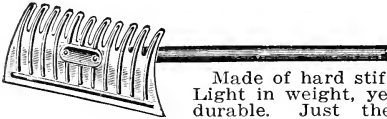
Be sure of your hatching eggs. Use only uniform heavy eggs. Receive more money on the market by selling eggs that have been graded for size and weight. Scale so constructed that eggs weighing from 18 to 26 ounces per dozen can be weighed. People will pay more for eggs weighing 22 to 24 ounces per dozen than light weight or pullet eggs. Each, 95c, postpaid.

**CHINA NEST EGGS**

Made of white porcelain, natural in appearance, and uniform in size. Will not easily break. Per dozen, 50c; postpaid, 60c.

**LICE REPELLING WHITE NEST EGGS**

Closely imitate a real egg in appearance, and contains a powerful disinfectant. Will aid greatly in keeping the nest and hen free from vermin. Soon pay for themselves in increased yield. Per dozen, 50c; postpaid, 65c.

**MOE'S HANDLED SCRAPER**

Made of hard stiff sheet steel. Light in weight, yet strong and durable. Just the thing for keeping the dropping boards clean. No. 51—Each, 50c, postpaid.

**DO THE COYOTES DISTURB YOUR FLOCK OF TURKEYS**

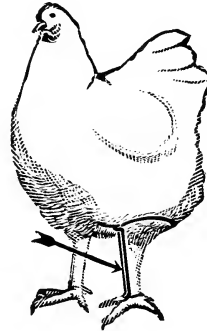
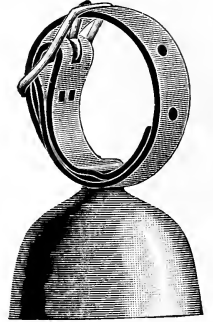
If So Use Some of OUR TURKEY BELLS

It is discouraging to raise a fine flock of turkeys until they are large enough to eat in the grain field and then lose most of them through hawks and coyotes.

Place a few of these bells around the necks of some of them and your flock is protected from all animals and hawks.

THE CHEAPEST PROTECTION THAT YOU CAN BUY FOR YOUR FLOCK OF TURKEYS.

Made from the best grade of bell metal, fitted with good leather strap for placing around neck. Each, 25c; 2 for 40c; 6 for \$1.15; per dozen, \$2.20, postpaid.

**THE "NO-SET" POULTRY GUARD**

Will not injure the hen in any way and effectually prevents her from setting. Will usually break up the most stubborn case in two to three days.

Full directions furnished with each guard.

No. 290—Each, 15c; two for 25c, postpaid.

**35 YEARS OF CONTINUAL GROWTH BASED ON SATISFACTORY SERVICE MADE POSSIBLE**

This new modern brick store building located at Sixth Street and First Avenue South, with over 12,000 square feet of floor space, arranged for your convenience, whether ordering by person or mail.

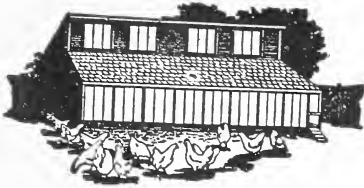
In this building is located our mail order department, seed, poultry, and pet departments and also a modern electrically operated hatching plant with a capacity of 50,000 eggs.

When in Great Falls, make an effort to visit us. We are always anxious to make your acquaintance and meet new friends.

# GLASS CLOTH

## Will Give You a Healthier, Stronger Flock

### TRANSMITS MORE ULTRA-VIOLET RAYS



Vegetables and baby chicks thrive amazingly under Glass Cloth. Cover hot beds, scratch sheds and brooder houses with this marvelous material now. Have vegetables and broilers earlier this spring—when prices are highest. GLASS CLOTH transmits more of the ultra-violet rays—the healthful, invigorating rays thrown off by the sun—than glass. Glass stops them. Put up in rolls, GLASS CLOTH is easier to use. Cheaper too! Use GLASS CLOTH also for enclosing porches, storm doors, windows, etc.

GLASS CLOTH PRICES—Single yard, 50c; 3 yards, \$1.25; 6 yards, \$2.25; 10 yards, \$3.50; 50 yards, \$17.00; 100 yards, \$32.00, postpaid.

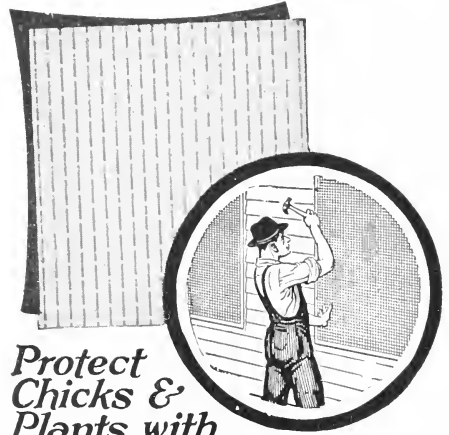
SPECIAL OFFER—15 yards Glass Cloth, postpaid your station for \$5.00.

Cel-O-Glass is a high grade, low priced substitute for glass. It is unaffected by rain, hail, snow, sun or wind and can be bent or cut to any desired shape and is practically indestructible. Cel-O-Glass is radically different from ordinary glass, yet in practical use answers all demands and offers very decided advantages. Cel-O-Glass can be used on greenhouses, hot beds, cold frames, poultry houses, scratch pens, brooder houses and all out buildings. It is no longer necessary to worry as breakages are entirely eliminated. Cel-O-Glass is the cheapest in the end. Cel-O-Glass comes in rolls 3 feet wide and 28 inches wide only and in any length up to 100 lineal feet (300 square feet).

#### CEL-O-GLASS PRICE

Width 36 in., per running foot, .....45c

Width 28 in., per running foot, .....40c



*Protect  
Chicks &  
Plants with*

## CEL-O-GLASS

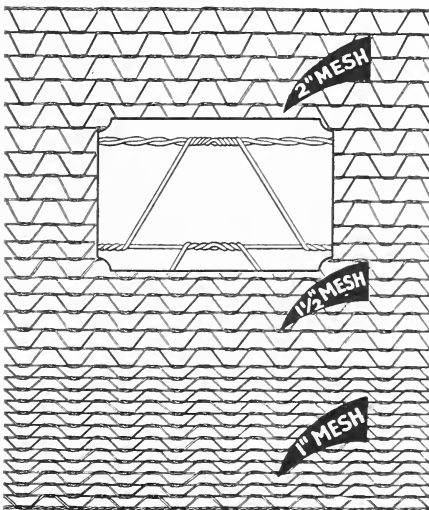
### STERLING STRAIGHT LINE COMBINATION NETTING

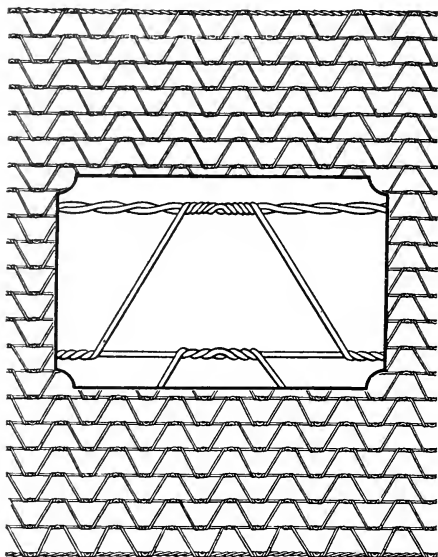
*Galvanized Before Weaving*

The unique construction of Combination Netting gives all that is desired. The close one-inch spacing at the bottom will turn baby chicks and give complete protection. Above the twelve-inch line the spacing is graduated to one and one-half inches for the next twelve inches. From the twenty-four inch line to the top, the line wires are spaced two inches apart. It is the all year round netting. Does away with the necessity of an all one-inch spaced netting or the expense of erecting a one-inch and a two-inch netting.

Prices Per Roll of 150 Feet  
We Do Not Break Rolls

Height	Weight	Price
42 inch	51 lbs.	\$ 8.10
48 inch	55 lbs.	9.45
60 inch	65 lbs.	10.80
72 inch	75 lbs.	12.15





## GALVANIZED POULTRY NETTING

Galvanized before weaving. Will stand on edge without wobbling. Wires can be stretched to a high tension which makes fence rigid. We recommend this type of netting. Made in one and two inch mesh.

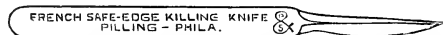
No. A, C, D, H, I, J, can be shipped parcel post. Others by express or freight. All rolls are 150 feet long. We do not cut rolls.

2-Inch Mesh			
No.	Width	Weight	Price Per Roll
A	12 inch	13 lbs.	\$1.65
C	24 inch	23 lbs.	3.10
D	36 inch	33 lbs.	4.10
E	48 inch	43 lbs.	4.95
F	60 inch	53 lbs.	5.80
G	72 inch	62 lbs.	7.20
1-Inch Mesh			
H	12 inch	15 lbs.	3.50
I	18 inch	22 lbs.	4.65
J	24 inch	29 lbs.	5.60
K	36 inch	42 lbs.	9.00
L	48 inch	55 lbs.	12.00
M	60 inch	68 lbs.	15.00

## POULTRY NETTING STAPLES

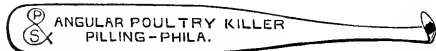
Galvanized No. 14 wire,  $\frac{3}{4}$  inch size. Per lb., 20c, postpaid; two pounds, 35c, postpaid.

## SAFE EDGE KILLING KNIFE



Exatly same as French Killer except cut on one side only. Prepaid on receipt of 50c.

## PILLING ANGULAR KILLING KNIFE



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Each, 60c, postpaid.

We are pleased to offer our many customers two new Caponizing sets, manufactured by one of the foremost experts in this country. As it is the policy of our company to prove to our satisfaction any new article before offering it to our customers, these sets were tried out and actual tests were made by our expert. His results were as follows: One of the simplest and easiest to operate sets that he has ever used. Nothing but the highest quality material is used and complete instructions are furnished with each set.



## LANDSDOWNE AUTOMATIC TESTICLE REMOVER

A great many people who now own a caponizing set have trouble in having a large percentage of slips. This is absolutely overcome with the use of this remover. Recommended by the poultry expert for this state. An ideal remover for the beginner. Price, each, \$1.25, postpaid.

## SPOON SET

For those who prefer using a spoon in the operation, we offer this complete set, consisting of spreader, knife, spoon remover or twisting scoop and complete directions for \$2.75, postpaid.

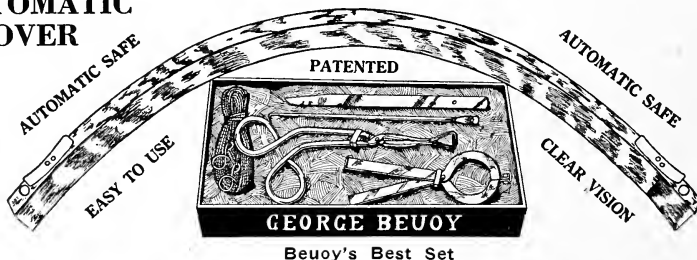


## CAPON-BOW

A new invention that will prove of great help. Made of hardwood and is flexible so that a uniform tension is had at all times. Takes but an instant to fasten chicken and holds the chicken firmly during the operation. Postpaid, \$1.25.

## BEUOY'S BEST SET

Without doubt the most complete set ever offered at this low price. Consists of automatic spreader, razor blade knife prod hook and automatic testicle remover. For those who have experienced difficulty in the large percentage of slips we recommend this set. Furnished with complete directions and sent postpaid for \$5.00.



Beuoy's Best Set



## COLORED LEADER ADJUSTABLE LEG BANDS



A general purpose band that provides quick and accurate identification. It will fit anything from a bantam to a tom turkey. Light in weight but very durable. Cannot come off.

Postpaid prices: 25c dozen; 50c per 25; 50 for 85c; 100 for \$1.50. Furnished in Red, Blue, Green and Pink.

## GRAHAM & ROSS ALUMIUM LEG BANDS

### Double Clinch Adjustable—

Made of sheet aluminum, with large raised numbers easy to read. Adjustable to any size fowl. Packed in cartons, 12, 25, 50 and 100. Numbered 1 to 12; 1 to 25; 1 to 50, and 1 to 100.



Postpaid Prices

12 bands.....\$0.15	50 bands.....\$0.45
25 bands......25	100 bands......75



Bantam  
No. 94



Pigeon  
No. 95



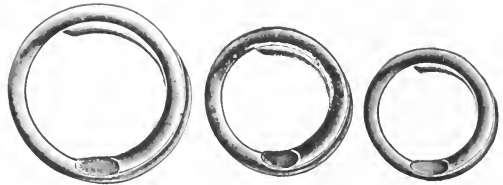
Baby Chick  
No. 96

## DIAMOND G CELLULOID COL- ORED LEG BANDS



Six  
Colors

Six  
Sizes



Asiatic  
No. 91

American  
No. 92

Mediter'n  
No. 93

Nothing but the finest banding is used in the manufacture of our leg bands. Made with extra full one-half lap, which makes them stronger and stay on better than the average band.

Furnished in cerise, red, blue, ruby, yellow, green. Prices postpaid, your station.

Sizes Nos. 92, 93 and 94: 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c.

Sizes Nos. 95 and 96: 12 for 10c; 25 for 20c; 50 for 35c; 100 for 50c.

# The BEST REMEDIES and TONICS

State experiment stations recommend the use of PoulTobac or tobacco powder for treating round worms. Finely pulverized to give most satisfactory results. Guaranteed to rid your hens of all worms. Easy to use. Just mix 2 pounds of PoulTobac in every 100 pounds of feed or mash. Feed for 3 weeks, discontinue for 3 weeks and then feed

for 3 weeks again. A money maker for each poultry raiser. Used as dust powder for plant lice. Per 2-lb. package, 50c; postpaid, 55c. Per 10-lb. bag, \$1.50, postpaid.

Small size, 55c, postpaid. Large size, \$1.10, postpaid.

**We Sell**

**B-K**  
Trade Mark

**Clean--Powerful--Safe**

**DISINFECTANT  
DEODORANT  
ANTISEPTIC**

**For 145 Important Farm and Household Uses.** 5601

## KEEP YOUR EGG LAYERS OFF THE SICK LIST

Now successfully used by leading breeders and poultry authorities. Recommended by our State Agricultural College at Bozeman. B-K is ten times more effective than undiluted carbolic acid in destruction of disease germs.

Size	Weight	Price
10 Oz.	1 lb.	\$0.60
1 Qt.	3 lbs.	1.25
1 Gal.	17 lbs.	3.00
5 Gal.	70 lbs.	12.50

**FREE**

Ask for special bulletins on Livestock and Poultry Diseases, published by the manufacturers of B-K. They will help you to stop losses and make profits.

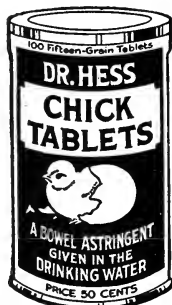
## DR. HESS POULTRY TABLETS

(Formerly Roup Tablets)

While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease.

The tablets are used as a local antiseptic and to medicate the drinking water. Thus used, they aid in preventing spread of the disease. Once the tablets are in solution, they remain so permanently. The water is evenly medicated and requires no further stirring.

Postpaid Prices—100 tablets, 50c; 225 tablets, \$1.00.



## DR. HESS CHICK TABLETS

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks, often mistaken for Bacillary White Diarrhea, are the result of improper feeding or brooding, and can be corrected by Dr. Hess' Chick Tablets. These Tablets are a bowel astringent to be given in drinking water.

Once the tablets are in solution they remain so indefinitely. No need for further stirring. Solution is thoroughly medicated and all good til used.

Postpaid Prices—100 tablets, 50c; 225 tablets, \$1.00.



## FOR HEALTH AND EGGS, PRATTS POULTRY REGULATOR

Has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. Not a dope or stimulant but a natural tonic supplying numerous health necessities required by heavy laying hens and breeding stock. Tones up the system, regulates bowels, aids digestion, sharpens appetite, wards of disease and increases vitality. Added to any mash it makes more eggs. Use it the year round and make bigger profits. Guaranteed to give satisfaction or your money back.



1½ lb. Pkg. .... \$0.30  
25 lb. Pail ..... 3.50

## PRATT'S REMEDIES

Pratt's Roup Tablets	
Small	.....\$0.35
Large	......65
Pratt's Bronchitis, large size	......60
Pratt's Condition Tablets, for Hens Off Feed	......70
Pratt's White Diarrhea	
Small	......35
Large, 2½ times as many	......70
Pratt's Bag Ointment (for the relief of Caked Bag and Bunches in Bag), 10 oz. can	......65
Pratt's Worm Powder, large	......69

## CONKEY'S REMEDIES

Roup Remedy (powdered)	
Small	.....\$0.25
Large	......60
Roup Remedy Pills	
Small	......30
Large	......60
Limberneck Remedy	......60
Cholera Remedy	......30

## DR. HESS POULTRY PAN-A-MIN

Pan-A-Min has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-ce-a.

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Dr. Hess Poultry Pan-a-min means Pan-a-ce-a plus.

Pan-a-min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health.

It does not take the place of feed and no feed can take the place of Pan-a-min. The cost is less than a penny per hen per month.

Size	Price
3 lbs.	.....\$ 0.65
7 lbs.	..... 1.25
15 lbs.	..... 2.25
25 lbs.	..... 3.50
100 lbs.	.....12.00



## We Sell and Recommend Burrell-Dugger Guaranteed Poultry Remedies



### DON SUNG Chinese for Egg-Laying

FOR LOAFING HENS

We Guarantee You More  
Eggs or No Pay

"Hens won't lay in Fall and Winter," used to be accepted as a fact. But anyone who has tried Don Sung knows that hens can lay right through the zero spells of winter, and all other cold or wet seasons.

Some may doubt this—and you may be one of them. But if you don't at least try Don Sung, you are missing the chance for easy profits from extra eggs.

A Mineral Compound That Scientifically  
Helps Nature



Don Sung doesn't force or hurt the hen in any way. It is a balanced mineral conditioner. It improves the hen's health, and makes her stronger and more productive. It helps supply, during Fall and Winter, those mineral elements, lacking in the feed at that time.

**COSTS NOTHING TO TRY**—Give Don Sung to 15 hens for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and a good profit, your money will be promptly refunded.

Prices: Trial size, 50c; large size, \$1.00, holds 3 times the 50c size; Special Size (6 times the \$1 size) \$5.00.

### TO KILL CHICKEN LICE!

The U. S. Dept. of Agriculture says, "Nothing is as satisfactory as Sodium Fluoride. It kills both old and young lice, including the young which hatch from the eggs present on the fowl at time of treatment."



"I Need T. S. F."

Here is T. S. F., specially made for poultry. It is less irritating, and is so light and fluffy that it penetrates the plumage. It is in a handy sifter-top can that keeps it protected. Carries the government's directions for use by the "dusting," "dip" and "pinch" method.

Prices of T. S. F.

Delivered

Small Size (enough for 40 chickens) 40c  
Large Size (twice as much) ..... 70c  
Special Size (five times the large size) ..... \$2.65

**TALCIMIZED  
SODIUM FLUORIDE**  
(Called "T.S.F.")

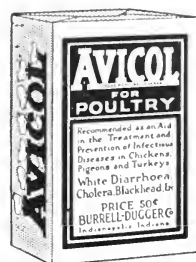
(All these prices include packing and postage.)



### CHICK TABLETS

Don't sit back and say your loss of baby chicks can't be stopped. It CAN BE STOPPED—easily, quickly, and at almost no expense. All you need do is drop an Avicol tablet in the water occasionally. Avicol is a special bowel astringent, and helps the chick withstand infection.

Price 50c; Special Large Size (almost three times 50c size), \$1.00.



### FOR COLDS In Poultry

## Group-Over

Formerly Called Roup-Over

Use this famous remedy at the very first symptom of colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention. Leading poultry raisers everywhere now use Group-Over, the over-night remedy. It's so easy! So sure! There's no other remedy like it—nothing "just as good." Have a bottle ready to use when you need it.

Price 50c; Large size (three times the 50c size), \$1.00.

### FOR WORMS IN POULTRY



Dr. Hess' Poultry Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart, with Dr. Hess' Poultry Pan-a-min fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.

4 lbs. .... 50 Hen Size.....\$1.50  
10 lbs. .... 125 Hen Size..... 3.25

**When sneezing,  
wheezing; roup;  
flu, bronchitis  
appears —**

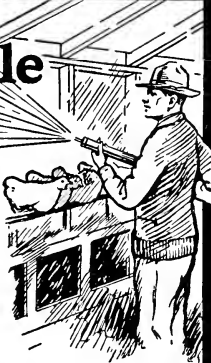
## Treat the Whole Flock

Diseases of the breathing passages spread rapidly. One sick bird is a warning others very likely are infected and will come down unless ALL are correctly and promptly treated. Treat the flock with Vapo-Spray.

### Vapo-Spray

The whole flock is treated as one, and at small expense, with the latest scientific treatment. Simply spray in the air of the hen-house at night. All the birds breathe the vapor of these healing oils. It gets into the nasal passages, throat, windpipe, lungs. A sensible and very effective remedy—recommended by many prominent breeders, agricultural colleges and experiment stations.

A gallon (\$2.00) is a three days' treatment for 200 birds (usually sufficient). ½ gal., \$1.25. In very severe cases of "Flu," the additional use of Flu-Koff Emulsion is advisable. It reduces temperature and overcomes inflammation. Given in the moistened feed. Quart (\$2.00) treats 200 birds three days. Gal., \$6.50.



## Guaranteed to Satisfy You

*The easy Lee way*



**QUICKLY  
GETS  
BOTH  
LICE AND  
MITES**

### EGG-O-HATCH

**This Is a Wonderful Hatching Help**

It is a dry powder. When added to water it makes a fluid rich in oxygen and with a strong affinity for carbon dioxide. It also has the property of rotting or making more porous and brittle the shell of the egg.

When sprinkled or sprayed on eggs undergoing incubation, three times only, it greatly strengthens the chick by directly supplying it with oxygen and by directly absorbing the carbon dioxide given off. At the same time it is weakening the shell.

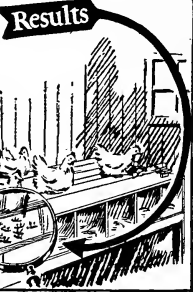
The result is that it is easier for the chicks to break out of the shell. A greater number hatch and all are stronger and easier to raise. Per package, enough for 700 eggs, 50c, postpaid.

## LEE'S LIQUID LICE KILLER

### THE GREAT LABOR SAVER

Just paint or spray on the roosts and dropping boards.

Kills the mites in the cracks and crevices, and the fumes get the body lice on the fowls. Your money back if you are not satisfied. Qt. can, 65c; half gal., \$1; gal., \$1.60, postpaid.



## Goes Directly to the Worms

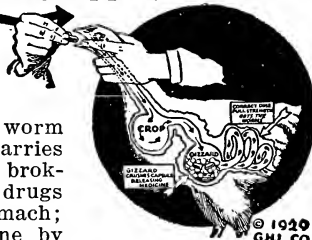
### The GIZZARD CAPSULE

TRADE MARK AND PATENTS PENDING

This insoluble capsule, a triple combination worm medicine for Round, Tape and Pin worms—carries clear through to the gizzard, where the capsule is broken up. This method prevents absorption of strong drugs by the mucous membrane of throat, crop and stomach; prevents diluting and weakening of the medicine by mixing with the crop contents. Five times as effective as where worm remedies are given in food or drink.

The GIZZARD CAPSULE, easily administered by one person and helper at the rate of 400 per hour, insures a full, exact undiluted dose directly from the gizzard into the intestines upon the worms. It does not sicken normal birds; improves low egg production; gets rid of worms. Very inexpensive.

Adult size for chickens or turkeys half grown or larger: 50-capsule pkg. \$1.00; 100 pkg., \$1.75; 500 pkg., \$7.00; 1,000 pkg., \$12.00. Chick size for birds under half grown.



**PROTECTS  
YOUR  
STOCK**

We know that Lee's Dip is the highest grade and can recommend it to satisfy you or your money back. Highly concentrated—one gallon makes from 50 to 100 gallons of solution for disinfecting barns, poultry houses, etc., or for dipping animals or for spraying or washing them. Qt. cans 75c; half gal., \$1.25; gal., \$2.00; 5 gal., \$8.00. 5 gal. size must be shipped by freight or express, all other sizes postpaid.



## Here Are the Famous Geo. H. Lee Company Remedies and Preparations for Poultry and Swine

### GERMOZONE Saved This Bird



Limberneck Bird owned by H. Reim, Ashland, Neb. Lower picture shows it three days later, after treatment with Germozone.

#### MARVELOUS FOR BABY CHICKS

Most often when a chicken is sick, the trouble is a crop or bowel infection. Disease germs are many in food, water and soil, and every break or irritation of the mucous membrane lining in mouth, throat, crop, stomach, gizzard or intestines offers these germs a chance to enter the system. Germozone destroys germs and helps to heal the affected membrane lining. When used regularly three times a week in the drink, and with proper feed and housing, there is rarely any sickness in the flock.

Keeps the crop pure and sweet and guards unceasingly against intestinal infection, digestive disorders, simple diarrheas and bowel trouble. Used and endorsed by many of the largest poultry farms and hatcheries.

Easy to use; inexpensive—a teaspoonful to a quart of drinking water. Especially valuable in case of sour crop, limber neck, eating mouldy matter, colds, canker, swelled head, etc. 12 oz., 75c; qt., \$1.50; half gal., \$2.50; gal., \$4.50.



#### EGG-O-LATUM

##### For Preserving Eggs

Rub a little Egg-o-latium on your hands. Then roll and rub the eggs in your hands. Lay them away in an egg crate in a dry, cool place. Turn the crate upside down occasionally, and they will keep perfectly fresh for one year.

Egg-o-latium is colorless, odorless, tasteless and non-poisonous. It protects eggs from air, odors, germs and decay.

Eggs coated with Egg-o-latium can be boiled, fried, poached or whipped, same as fresh eggs. Avoid dampness.

Price per jar, 50c. Sufficient for 50 dozen eggs. Large size, \$1.00, for 200 dozen eggs.

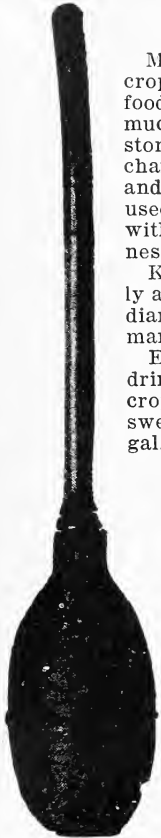
#### FOR NECRO IN HOGS

Germozone is unquestionably the most effective treatment for necro in hogs. It is both a preventive and remedy. Half gal. bottle, \$2.50; gal., \$4.50.

#### LEE'S DRI-RUB

A Cold Weather Substitute for Liquid Dipping

Invaluable for de-lousing hogs and other animals in winter. Simply sprinkle freely on the animals and in the bedding. Poultrymen find it excellent to put in hens' dust bath. Much cheaper than ordinary louse powder. 3 lb. can, 75c, postpaid.



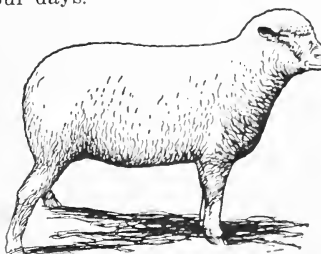
#### LEE'S POULTRY SYRINGE

Invaluable for individual treatment of sick chickens, washing out crop, giving doses oil, feeding milk or thin gruel, washing out sores and cuts in animals. Accurate. Can also be used as infant or vaginal syringe. Price, 35c; 45c postpaid.



#### SCOURS IN SHEEP

Germozone is marvelous for scours in sheep, caused usually by moldy alfalfa or beet tops. Many growers have found that Germozone clears up the worst cases of scours in from three to four days.



# Lice Killers

*It Sticks Where Others Fall Off. Kills Head Lice as Well as Body Lice*

## REVENGE KILLER



Before



After

We are introducing a new louse killer called REVENGE. This is a combination of powder and liquid. In applying a plain powder, you will find that you will kill the lice, that is on the chicken at time of treatment, but not the EGGS. Revenge stays on about a week and not only kills the lice, but also the eggs. Easy to apply, either direct or by mixing in the dust bath. Full directions on each can. Before stocking this article, we tried it out on various flocks and are satisfied that it is the best yet. The cheapest louse killer we have yet found. 1½ pounds, 65c; 3 pounds, \$1.00, postpaid.

## DR. HESS INSTANT LOUSE KILLER

Kills lice on stock and poultry. Easily applied by putting in dust bath. Hens work it down into the feathers where the lice are. It kills lice on contact. It is also applied directly to the fowl if badly infested.

Kills lice and bugs on cucumber, squash and melon vines—slugs on rose bushes.

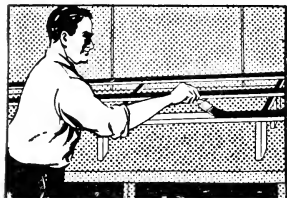
It is non-poisonous, so may be used on edible plants with entire safety. Comes in handy sifting-top cans.

Postpaid Prices. 1 lb., 35c; 2½ lbs., 65c.



## DISCOVERED—A NEW CONTROL FOR POULTRY LICE

### 'PAINT' THE ROOSTS



### WITH 'BLACK LEAF 40'

more than pleased with the results.

Size	Price
1 oz. ....	\$0.35
1 lb. ....	1.25
1 lb. ....	2.50
2 lbs. ....	3.75
10 lbs. ....	7.00
10 lbs. ....	11.85

Delouse entire flock by painting the roosts with Black Leaf 40. When chickens perch upon roosts that have been "painted" with Black Leaf 40, fumes are slowly released and penetrate the feathers, killing the body lice—no interference with egg production nor any discomfort to the birds. Full directions furnished with each can. Many of our customers who have tried this new method are

## HEALTH PAINT—A DISINFECTANT



Disinfects and white-washes at the same time. Easy to mix and apply. Will not clog the sprayer. Will not peel off. Dries white. Will cover any kind of surface. Has no disagreeable odor. Full directions on package.

5 lbs. .... \$0.75  
10 lbs. .... 1.50

One pound will cover 100 square feet.

## DIAMOND G HOG OIL

As the name implies, made especially for treating hogs, preventing skin diseases and lice. One treatment every three months is advisable. Easily applied.

Per gal., 60c; postpaid, 70c.

## LICENE

For Killing Body Lice on Chickens

If LICENE does not prove an effective remedy against chicken lice or does not clean scaly legs on your chickens, or if applied on sitting hens and does not prevent head lice on chickens—YOU ARE THE JUDGE—we will refund your money, if notified within 30 days after purchase of same.

It is applied but TWICE A YEAR, but many of our patrons report that they have found one application a year sufficient. Licene is not only cheaper than louse powders and liquid lice killers, but is also more conveniently handled and more easily applied.

Fudd directions with each tube.

Price 60c per tube; postpaid, 65c.

## SULPHUR CANDLE

An easy, yet economical way to fumigate any room after sickness or disease. Contains no wax, comes prepared in tin can with six wicks. Simply light the wicks and close all doors and windows. Use from

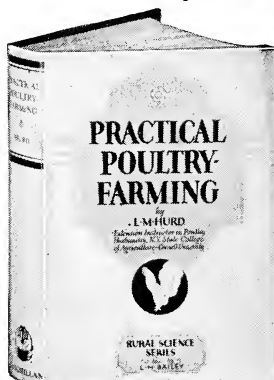
four to five candles per thousand cubic feet.

Large size, containing 1 lb., 40c each, postpaid.



## PRACTICAL POULTRY FARMING

By L. M. Hurd



Here are practical, useful, and money-making ideas on raising poultry for profit, no matter whether one is entirely green or has years of experience. Complete in every detail. The only book which tells the vitamin content of poultry feeds, 149 illustrations, 450 pages.

Price, \$3.50.



## ATTENTION!

### To Owners of Iowa Vermin Proof Roosts

#### We are now stocking Liquid ANTI-SEP-TOL

Anti-sep-tol is a deodorant, antiseptic and parasiticide, and will purify the air and kill disease germs such as roup, chicken diphtheria, tuberculosis, etc., as well as lice and mites.

Anti-sep-tol is also recommended for hog flu. When used for hog flu spray bedding once a week for two weeks.

Size	Weight	Price
1 gal.	11 lbs.	\$1.25

### Dry Septol

#### KILLS LICE AND MITES IN HEN NESTS

Two tablespoonfuls placed in one corner under the nesting material in each hen's nest about once every 3 or 4 weeks, and we guarantee there will be no lice or mites to bother the hens. For setting hens that have to stay on their nest for 3 weeks at a time, it is a blessing. It keeps the nest clean from vermin and while it will destroy the insects it will not harm the germination of hatching eggs. The fumes are highly antiseptic. Often the setting hens die on their nests from mites. One or two live hens would pay for enough Dry Septol for all your hen nests. Why take a chance, when Dry Septol will keep the nests clean from vermin.

4 lbs. ....\$1.25



### Kill Rats Without Poison with K-R-O

**Won't Kill Livestock, Poultry, Dogs, Cats or even Baby Chicks.**

K-R-O can be used with safety around the home, barn, poultry yard or anywhere, as it contains *no deadly poison*.

**Results guaranteed or your money back from us.**

Don't take chances with poisons.

Read what your neighbor says of K-R-O.

Postpaid for 75c.

## Prevent Blackhead in Turkeys

Ray-zem is one of the greatest Poultry Remedies ever discovered. It counteracts acidity, and helps keep the stomach and intestines in an alkaline condition, which is so necessary in preventing disease from getting a foothold and causing serious losses. Unequalled for preventing Blackhead in Turkeys and many diseases of chickens. Should be used daily from time birds are hatched until the danger period is over. Highly concentrated—a little goes a long way. A gallon is enough for 150 turkeys or 250 chickens for a season.



#### Thousands of Users Everywhere

Ray-zem is used by Turkey and Chicken Raisers throughout the United States and Canada. Is also used by many Government and Private Game Farms for preventing disease in Wild Turkeys, Pheasants, Quail, etc. Sold under an absolute guarantee of satisfaction or your money back.

#### New Reduced Prices

Greatly reduced prices are made possible by the tremendous popularity, and increased sales. New prices are as follows: Gallon, \$9.00; ½ Gallon, \$5.00; Quart, \$3.50; Pint, \$2.50; trial size \$1.00. Order today.

## Kill-Em-Quick

TRADE MARK REG. U.S. PAT. OFF.



Kill-Em-Quick is ready to mix with your own clean grain.

Don't take chances sowing quack and other noxious weed seed by using so called "prepared" poisoned grain.

Kill-Em-Quick costs less than to prepare your own poison bait.

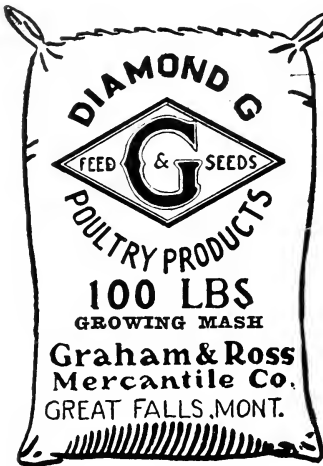
Powder, 40 acre size, price per pkg. ....75c

#### USE "KILL-EM-QUICK"

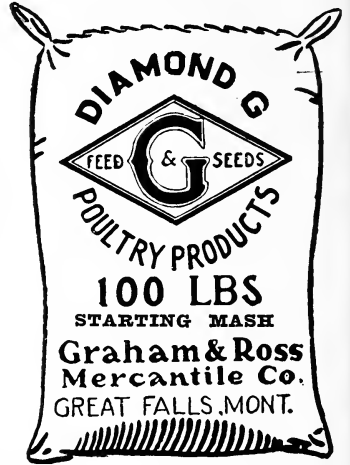
Kill the Gophers

Save the Crops

# Poultry Feeds



There's no getting away from it, folks; there's no "luck" about success with poultry. Bad luck means the wrong way; wrong feeding, housing, or sanitation; wrong diagnosis; wrong treatment. One follows along after the other as night follows day. Two wrongs never made a right. In fact, one wrong generally leads on to other wrongs, just as when you choose a wrong road at the "forks." We spend years of time and many thousands in money to show you the right way, and it costs you not a penny, because products so developed by us and sold by us cost you no more than products (similar, perhaps, but not the same) made by others or manufactured at home.



Last year we told you that Diamond "G" and Ceretana brands of poultry feeds were second to none regardless of where others are made. During the past feeding season thousands took us at our word and tried them. These new customers, like thousands before them, realize that our Montana Made Feeds solve their nutrition problems. These two brands of feeds are scientifically prepared from choice Montana grains and other ingredients and have been flock tested under Montana's trying conditions for the past six years.

Prices are lower but quality never sacrificed. Our reputation of 35 years is your assurance of value received. What Montana makes, makes Montana and we are here to make our state the best in the union. We guarantee lower prices and satisfactory results to the users of Diamond "G" or Ceretana Poultry Feeds. Let results speak for themselves.

## Diamond "G" Feeds

### DIAMOND G BUTTERMILK CHICK STARTING MASH WITH YEAST FOAM

The new chick mash that gave such wonderful results last season.

Yeast is the greatest known source of vitamin "B," the vitamin found in the yolk of the egg that supplies the chick with its first food. When used to ferment, it breaks down starches that are so hard to digest and makes them easier digested. It also releases more mineral salts the feed contains. It develops lactic acid. If you experience any bowel trouble with your baby chicks this season, we recommend using this new mash and giving one feeding a day of fermented mash. Complete directions for fermenting this mash is furnished with each sack. See price list.

### DIAMOND G BUTTERMILK GROWING MASH WITH YEAST FOAM

Diamond G Growing Mash is the food for your chicks from the fourth to sixth week until maturity. Composed of linseed meal, wheat bran, wheat middlings, corn feed meal, oat meal, meat scraps, alfalfa meal, yeast foam, dried buttermilk, bone meal and calcium carbonate. Diamond G Growing Mash provides the animal and vegetable protein necessary to hasten growth, proper body development and brings your chicks to rapid, healthy maturity. See price list.

### DIAMOND G CHICK SCRATCH

Diamond G Chick Grains is composed of yellow corn, cracked milled milling wheat, cracked milo maize, millet seed, oat groats and split peas, care-

fully selected, properly prepared and blended. The clean, sparkling grains are just the right size for the chicks and in scratching for them they obey one of the first commands of nature—exercise. See price list.

### DIAMOND G DEVELOPING SCRATCH

Diamond G Developing Grains are composed of the same clean, fresh wholesome grains that make up Diamond G Chick Grains, the only difference being that the grains are larger, and so better adapted to the larger digestive apparatus of the growing chick. The idea is to save money for the feeder. If he didn't have the developing grains he would have to continue feeding baby chicks grains for a longer period. See price list.

### DIAMOND G EGG MASH

Diamond G Egg Mash, the feed that fills the egg basket, is blended and balanced from dried buttermilk, rolled oat groats, oat meal, corn feed meal, linseed oil meal, wheat bran, wheat middlings, meat scraps, alfalfa meal, bone meal and calcium carbonate. Mixed in power driven batch mixers for uniformity. Diamond G Egg Mash has been flock tested under Montana conditions for the past six years and is rightfully termed "The Mash that makes the eggs that make the money."

Diamond G Egg Mash is mixed under three formulas, one containing yeast, one buttermilk and one containing yeast, buttermilk and Cod Liver Oil. Write for complete description of each feed. See price list.

### DIAMOND G HEN SCRATCH

This is composed of choice grains in just the correct proportions that years of experience has demonstrated is right. Feed morning and evening at the rate of ten pounds of grain per hundred hens each day. See price list.



**200 TURKEYS—17-20 POUNDS AT SIX MONTHS**

Eagle Butte, Mont., December 17, 1930.

Graham & Ross Mercantile Co.,  
Great Falls, Mont.  
Dear Sirs:

We raised 200 turkeys this year which had absolutely no crooked breasts, and the average toms dressed out 17 to 20 pounds at 6 months of age.

We purchased all our mineral feeds and growing mash from Graham & Ross. I have studied carefully and don't believe the price of your products can be beat any place, when one considers the high quality of the feeds he is assured of getting from you.

I sincerely recommend your poultry supplies and personal service to anyone.

Respectfully,  
(Signed) GUY WILLSON.

**CERETANA FEEDS****CERETANA BUTTERMILK  
STARTING MASH**

in low boxes, troughs or feeders, and keep before the chicks at all times. Ask for FREE feeding circular.

is very low in fibre. The protein and carbohydrate content are from sources which supplies growth that must be rapid and constant. Chicks fed the "Ceretana Way" attain maximum development of the frame—structure, without which the birds cannot mature into strong, vigorous and profitable layers.

Ceretana Buttermilk Starting Mash is made with Cod Liver Oil Meal.

Feed when chicks are 48 to 60 hours old. At first it is well to sprinkle a little Ceretana on paper and attract birds to the feed. Later feed the mash (always dry)

**CERETANA BUTTERMILK  
GROWING MASH**

Ceretana Buttermilk Growing Mash is compounded to grow and condition the birds—cockerels for market and pullets to finish into profitable egg producers. Ceretana Buttermilk Growing Mash is a developed, conditioner and finisher. Gradually change from Ceretana Buttermilk Starting Mash to Ceretana Buttermilk Growing Mash, starting about the fourth week. You cannot afford to stunt the growth of properly started chicks. Growing Mash fed at this age until maturity will pay big dividends on the investment.

**CERETANA TURKEY BUTTER-  
MILK STARTER WITH COD  
LIVER OIL**

Start baby turkeys RIGHT. Provide your poults with the elements so necessary to promote life, growth, early development. CERETANA TURKEY STARTER is an ideal feed, containing the important vitamins, minerals and ingredients especially compounded for the particular requirements of MONTANA TURKEYS.

CERETANA TURKEY STARTER is highly digestible and made from materials selected to eliminate the trouble of the feed pasting in the poult's mouth. Ask the turkey grower who used CERETANA last year and learn about the wonderful results obtained—the large, heavy and healthy birds.

**CERETANA BABY CHICK  
SCRATCH**

Ceretana Baby Chick Scratch contains steel cut yellow corn grits, fine cut oat meal, cracked milling wheat, cut peas, cracked milo maize, and millet seeds. Only choice quality grains used—fresh, sweet and low in moisture—uniformly milled, twice re-cleaned and carefully blended in the proper proportion to provide your chicks with maximum growth and the development of the digestive organs. Free sample on request. We invite your comparison of Ceretana Baby Chick Scratch with any other chick scratch on the market. Ask for free circular on feeding.

**CERETANA LAYING MASH**

Ceretana Laying Mash contains choice meat meal, dried buttermilk, oat flour, pea meal, flour middlings, wheat bran, wheat flour, gluten feed, yellow hominy feed, linseed meal, steamed bone meal, powdered charcoal, calcium carbonate, 1 per cent iodized salt.

**GUARANTEED ANALYSIS**

Minimum Protein, 20.00 per cent. Minimum Fat, 5.00 per cent. Maximum Fibre, 5.50 per cent. Maximum Net. F. Ext., 50.00 per cent. Carbohydrates, 55.50 per cent.

Egg production requires a proper protein, low fibre mash compounded from ingredients properly balanced highly digestible and palatable, containing the correct amount of animal protein and mineral content. Such a mash is Ceretana Buttermilk Laying Mash. Guaranteed to give "Feed Lot Results" or money refunded.

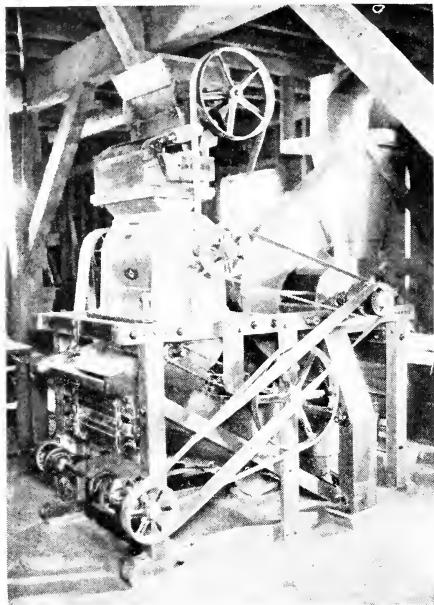
**CERETANA  
PULLET  
SCRATCH**

Ceretana Pullet Scratch contains the same ingredients found in Ceretana Baby Chick Scratch. Milled to a size for growing chicks. Ceretana Pullet Scratch continues the growth and development so essential if your birds are to enjoy health and vitality and mature into active and vigorous producers.

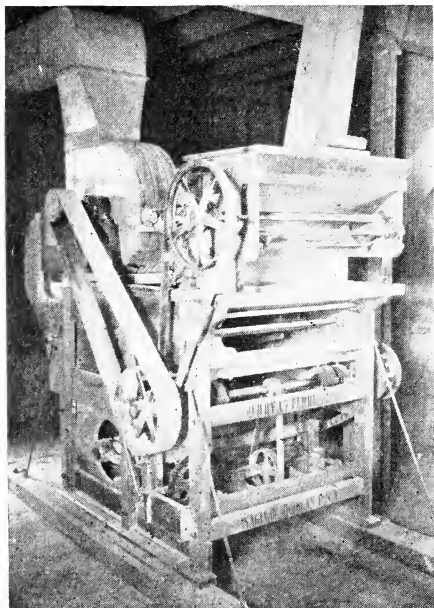
For prices see colored insert.



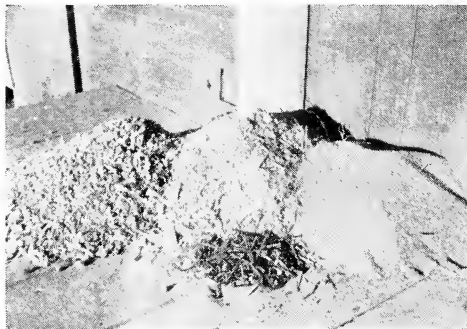
## Here's How Our Feeds Are Made



The picture below shows a new modern clipper cleaner which we have just installed for cleaning poultry grains and feeds. It has over thirty screens which enables us to make separations of any grain or feed. It is also equipped with a variable air regulator which is double insurance for a clean product. All Diamond "G" Feeds go through this cleaner.



Here is a view of one of our new type corn crackers. This machine has an excellent cleaning attachment and magnetic separator. It produces steel cut corn and triple screens it, at the same time making three grades of cracked corn, hen, poultry and chick. Triple screened steel cut yellow corn is used in all Diamond "G" Feeds.



## DIAMOND "G" FEEDS ARE CLEAN

The picture above shows an actual sample of strings, corn cobs, nails, bolts and dirt, removed by our modern cleaning equipment from a car of supposedly clean grain. All Diamond "G" Feeds and "X-L" Seeds are as clean as it is humanly possible to get them.



In the above picture you see Diamond "G" Feeds leaving the power-driven batch mixer and being sacked ready to be delivered to you. Diamond "G" Feeds are made every day so that you always get fresh feeds.

Our elevator and warehouse are open for inspection at any time and we always welcome visitors. We are pleased to show anyone how feeds and seeds are cleaned and how Diamond "G" Mashers are manufactured and the ingredients that go into them.

## CERETANA CALF MEAL



A milk supplement ration scientifically balanced and skillfully milled. Manufactured from the very finest of materials. Protein 24 per cent and highly digestible. Thousands of bags have been sold and the wonderful reports from feeders is your guarantee that you will be more than pleased with the results from CERETANA CALF MEAL, and the money

saved. Per 25 lb. bag, \$1.45. Add postage.

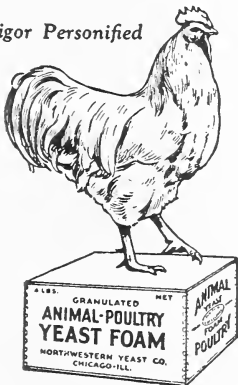
## DARLINGS MEAT SCRAPS

Made from select, clean, fresh trimmings of meat, thoroughly cleaned with every possible amount of water and grease removed in tremendous presses. Sweet and clean and will keep as long as a grain feed under similar conditions. Guaranteed to contain at least 50 per cent protein. See price list.



## ANIMAL POULTRY YEAST FOAM

Vigor Personified



Yeast Foam makes any feed better, makes any feed go farther, and builds health and vigor. Has been tested and proven by some of the largest poultry plants in the United States. Full feeding directions for mixing and also for fermenting mashies furnished with each order. Per lb. 25c. 4 lb. package postpaid, \$1.00. (Ask for Free Bulletins on the Value of Yeast.)

GET YOUR NAME ON OUR POULTRY LIST  
Special quotations are made at intervals during the year whenever market fluctuations justify. We can save you money.

## ATTENTION SALT BUYERS

We are pleased to announce that we have obtained the distribution of RED STAR SALT. This new salt contains NATURAL IRON AND IODINE. Authorities agree that iodine is a preventative of goiter. The iron contained in RED STAR SALT is priceless as it supplies iron to the blood, acts as a natural tonic and stimulates the appetite. See price list.

If you are a carload buyer of salt obtain our delivered price at your station.

## HOG RAISERS

Try Some Montana Tankage This Season

The usual feed or corn and other grains lack the necessary protein and phosphates, which are absolutely necessary for proper development and growth of hogs for profitable returns and the analysis of Montana Tankage shows it to contain nearly 60 per cent protein, which is the reason that if Montana Tankage is added to your regular feed, hogs will mature much more quickly than without it and will in most cases develop a much nicer hog.

## Feeding Instructions

For young pigs on separate feed mix a tablespoonfull of Montana Tankage with each feed.

For growing pigs two or three months, mix one part of Montana Tankage with ten parts regular grain ration.

For fattening mature hogs mix one part of Montana Tankage with fifteen parts regular grain rations.

Some feeders start with one-half pound tankage per day for hogs, 100 lb. in weight, under that weight, decrease and gradually increase up to one-half pound per day.

If mixed with slop always feed the Montana Tankage just before feed.

Montana Tankage is a very rich food and precaution should be taken not to over feed at any time.

Per 100 lbs. .... \$3.00  
Ton lots ..... 2.50

## RAISE YOUR CALVES WITHOUT MILK

TRADE MARK  
REG U S PAT.OFF



Blatchford's Calf Meal has been used for over 125 years and is still showing its superiority over all others. Millions of calves raised on it each year. Per 25 lb. sack, \$1.75; per 50 lb. sack, \$3.25; per 100 lb. sack, \$6.25. Add postage or freight.



## Molas-O-Cakes

### For SHEEP and CATTLE

Real food pressed into cake form. All ready for use. Containing cane molasses, protein-rich concentrates in the form of soya bean meal, prime cottonseed meal and linseed—together with wholesome ground grain, products, iodized salt, calcium and bone.

Aside from the nutritional value of MOLAS-O-CAKES, there is convenience in feeding—on the range or in the feedlot. As the name MOLAS-O-CAKES suggests, the feed is in cubes or cakes. Nothing to blow away.

We recommend HI-POWER MOLAS-O-CAKES especially during the breeding period, for fattening and finishing and for the provident feeder who wants the best.

Protein content of 16.50 per cent guaranteed.

CERETANA MOLAS-O-CAKES has a minimum protein of 13.50 per cent is of standard quality—the real molasses chew.

Molasses ECONO-CAKES is a great maintenance ration, a carbohydrate feed that will keep your stock well fed. Protein 11.00 per cent.

## Ingredients of Feeds

**ALFALFA MEAL**—For winter feeding Alfalfa Meal is the best form of green feed so essential to winter egg production. Mix in any mash. Made from choice Alfalfa leaves.

**BARLEY FLOUR**—Used by all successful people who mix their own mash.

**BONE (Special Steamed)**—Good for stock and poultry on account of its easily digested mineral properties. Furnished in 3 sizes, meal, chick and hen.

**BUCKWHEAT**—Very rich in oil and relished by all poultry.

**BUTTERMILK DRIED**—No chick mash complete without this wonderful feed. No laying mash complete on account of the lactic acid found which helps digestion and prevents leg weakness.

**CHARCOAL (Hardwood)**—Absorbs gases and aids digestion. Keeps fowls and stock in better health. Furnished in 3 sizes, chick, hen, lump.

**COD LIVER OIL**—Without doubt the greatest discovery of the past few years for increasing egg production, overcoming soft shelled eggs and preventing leg weakness. Each gallon weighs 11 pounds.

**COPPERAS**—The ideal tonic used for poultry, turkeys and stock. Can be fed alone or in mixtures, full directions with each sack. High in iron used to tone up system and place stock back on feed. Druggist grade per pound, 15c. Over 5 lbs. at 12c per lb.

**CORN NO. 2 YELLOW**—In buying corn for your poultry be sure that you obtain dry yellow corn. We sell nothing but No. 2 dry yellow. Write for prices when in need as the market fluctuates on this article.

**CORN (Cracked Rescreened)**—In purchasing cracked corn for your scratch feed, buy nothing but rescreened as the meal in common corn is a waste.

**CORN MEAL (Yellow)**—Used for mixing mashes.

**COTTON SEED MEAL**—This product contains 43 per cent protein. Used by successful poultry feeders and dairymen.

**EPSOM SALTS**—All flocks need this laxative every two months. Feed one pound of salts to every 100 birds.

**FLAX MEAL (Druggists Grade)**—One tablespoon in a mash to each dozen fowls is a great help during the moulting season.

**GRIT (CRYSTAL)**—Called the hen's teeth. You are not getting maximum results from the feed you are giving your hens if you do not furnish them with Crystal Grit. Gravel, glass or ashes will not take the place of this hard Crystal Grit.

**LIME (Unslaked)**—Used by all poultrymen in keeping the hen house clean by white-washing.

**LINSEED OIL MEAL (Old Process)**—Used in all mashes and stock feeds.

**MEAT SCRAPS (DARLINGS)**—Must be used in every mash for maximum egg production.

**MEAT SCRAPS (VITAMONT)**—See description in this catalog.

**MILLET**—If you mix a home-made mixture of scratch for the baby chicks, by all means add Millet on account of the oil found in it which helps build feathers.

**MIL O MAZE**—Birds relish a change in diet the same as you do. Feed them a mixture of wheat, oats, barley, milo maze and sunflower and notice the results.

**OAT FLOUR**—For those who wish a lower priced article, and at the same time benefit any poultry mash, we manufacture this feed. Easily digested on account of the low fibre content.

**OAT GROATS (Whole)**—Used in all successful baby chick mashes. High in feed value and easily digested.

**OATS ROLLED (Oat Meal)**—The highest grade of oat meal obtainable. Used by turkey raisers with great success.

**OYSTER SHELL FLAKES**—A new product for poultry. Over 98 per cent pure carbonate of lime. Triple washed and absolutely free of dust or fine particles. When you purchase 100 lbs. of Oyster Shell Flakes you obtain 100 pounds of useful feed.

**POULTRY MINERAL (Blatchford's)**—Ideal for soft shelled eggs, leg weakness and promoting health.

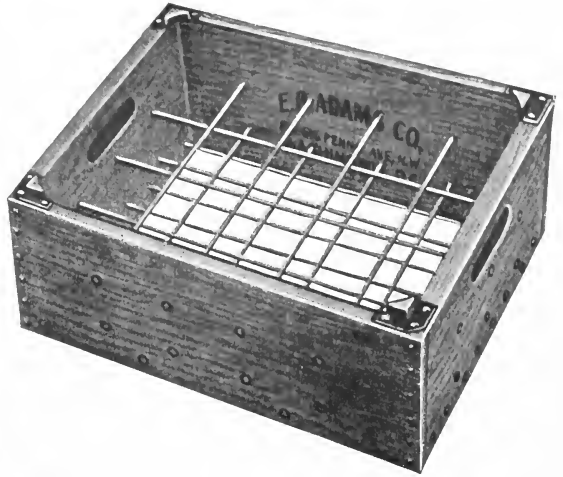
**SUNFLOWER SEED**—Used by poultry fanciers to obtain a bright lustrous plumage. High in oil and ideal for parrots.

Get your name on our poultry list. Special quotations are made at intervals during the year whenever market fluctuations justify. We can save you money.

**E-Z PULL MILK BOTTLE CAPS**

Our caps are made from pure spruce wood pulp board. The pulp has just the required amount of sulphite to give the caps the strength and snap they should have. Will fit all standard size bottles. Per lb. 30c.

We can furnish this cap in any special design you desire and with two color work if necessary. If interested in purchasing in crates of 50,000 kindly send us a sample of the cap you are now using and allow us to quote you special prices. Can also be furnished in tubes for bottle cap machines.

**STANDARD WOOD BOTTLE CRATE**

Only the choicest wood, thoroughly dried and cured, is used for these cases. All cases are nailed through a galvanized iron cleat with cement coated nails. The ends are bound to hold solid. Every partition is hand riveted to both sides of case. 3x4 Quart size, weight 16 lbs., \$2.40.

**MILK CANS**

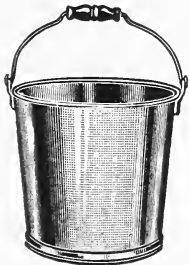
The breast and cylinders of these cans are fused together by electric welding. Side seam is made in the same manner. Bottoms are driven on, riveted and soldered. Every piece that goes into the can is double tinned with pure block tin.



Stock No.	Capacity Gallons	Size Neck	Weight	Price
3108	8 Gals.	7 1/4 in.	16 Lbs.	\$3.95
3210	10 Gals.	7 3/4 in.	19 Lbs.	4.15

**MILK STRAINERS**

Made of dairymans' tin, seamed and soldered; wire ring handle; wire top rim. 4 1/2 in. brass strainer and hoop and rim to fasten cloth. Each 75c. Postpaid 85c.

**SANITARY DAIRY PAILS**

Made of heavy charcoal plate, Dairycote finish, heavy tinned sanitary wire bail. A heavy, durable pail complying with modern dairy standards.

Size	Weight	Price
14 Qts.	5 Lbs.	\$1.75

**STRAINER CLOTH**

Made of brass 12 inches wide. Used for straining milk and other liquids. Can be used for replacing strainers in funnels. Per sq. ft. 50c postpaid.

No dairy farm should be without a bottle of B-K, the safe, powerful disinfectant. Ten times stronger than undiluted carbolic acid in destruction of disease germs but safe. Ask for the free bulletins on the use of B-K.

**FREE BULLETINS FOR DAIRY MEN**  
When ordering, ask for them.

**MILK BOTTLES**

Heavy, clear, crystal glass with heavy reinforced glass top; easily cleaned and sanitary, accurate in measurement.

Size	Amount	Weight	Price
1/2 pints	Dozen	12 lbs.	\$ 0.70
1/2 pints	Gross	120 lbs.	7.75
Pints	Dozen	20 lbs.	.90
Pints	Gross	170 lbs.	9.25
Quarts	Dozen	30 lbs.	1.15
Quarts	Gross	300 lbs.	12.75

**MILK PANS**

Made of the best grade of retinned milkman's tin. Will not rust. Stamped from one piece, which makes them seamless; extra wide flange.

Capac.	Wt.	Prc.	Capac.	Wt.	Prc.
3 qts.	1 lb.	15c	6 qts.	1 1/2 lbs.	50c
4 qts.	1 lb.	20c	8 qts.	2 lbs.	60c

Postpaid.

**SPECIAL**

One of each of the above pans, postpaid, \$1.49.

## FREE BULLETINS FOR DAIRYMEN

The General Laboratory Company, manufacturers of B-K have issued attractive and very useful bulletins that will interest all dairymen. These are free for the asking. No. 112 Separator; 124, Milking Machine; 116, Bottles; 928, Milk Cans; 320, Better Food and Dairy Products.



## RELIEVES AND PREVENTS UDDER TROUBLES

UDDER HEALTH is penetrating. Does not clog the pores in the skin. Is free from all offensive odors.

Adds to the natural oils in the skin so that teats do not dry and crack in cold, damp weather.

Sizes	Prices
1 lb. can .....	\$1.00 each
½ lb. can .....	.60 each



## B-K

A clean, colorless, non-poisonous liquid which can be used everywhere in the Dairy, Creamery and Cheese Factory for destroying contaminating bacteria and foul odors.

One gallon of B-K will make from 200 to 500 gallons of dilution according to the purpose for which it is used.

Size	Weight	Price
Quart	3 lbs.	\$ 1.25
Gallon	17 lbs.	3.00
5 Gals.	70 lbs.	12.50

Special Discounts on 25-Gal. Lots

## DR. HESS DIP AND DISINFECTANT



A Dip that makes a perfect, milk-white emulsion—never any streaks or settlings. Remains in emulsion indefinitely. It is a standardized product with an established carbolic acid co-efficient; always uniform in strength, no matter where purchased. Because of its strength, its uniformity, its perfect emulsifying qualities, with its germ and insect killing powers, it is a most inexpensive dip to use. Valuable about barns and stables—kills hog lice and other parasites and keeps down foul odors.

Size	Weight	Price
1 qt.	4 lbs.	\$0.60
½ gal.	7 lbs.	.85
1 gal.	12 lbs.	1.50
5 gal.	50 lbs.	6.25

## DR. HESS STOCK TONIC

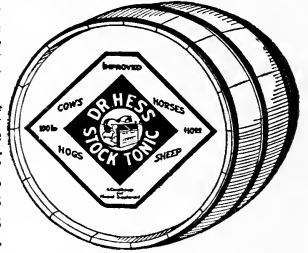
This product has been serving the dairy interests of the country for upwards of 35 years.

A summary of many comparative tests, covering three whole years, shows that cows receiving Dr. Hess Stock Tonic produce, on the average, 54.9 per cent more profit than cows not getting the Tonic.

The Tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. All the minerals proved necessary to the heavy producing dairy cow have been added. This conditioner and mineral supplement whets the appetite, sustains the milk flow well through the lactation period and is a valuable aid in calving.

Put up in 100-lb. iron drums and convenient size cartons.

Size	Price
5 lbs. ....	\$ 0.85
15 lbs. ....	3.25
25 lbs. ....	3.50
100 lbs. ....	12.00



## DAIRY STERILIZERS

General Information—

Bulletin 320 "Better Food and Dairy Products."

Bottles—

Bulletin 116 "Will She Boast of the Purity of Your Milk?"

Cans—

Bulletin 928 "Sterilize Your Milk Utensils."

Milking Machines—

Bulletin 124 "Milking Machines—What Happens in Your Barn."

Separator—

Bulletin 112 "Separator Cleaning Simplified."

ASK FOR THESE FREE BULLETINS.

# Dr. Hess FLY CHASER



*The Fly Chaser that has the odor of the pines*

AS A RESULT of some 300 experiments, the U. S. Department of Agriculture found the pine odor principle to be superior to all others in repelling flies.

Dr. Hess Fly Chaser is a highly refined product, al-

most colorless, developed through fifteen years of experimentation. It is more effective and keeps flies away for a longer time than any other.

In addition to protecting cows and horses from flies, it is also an excellent disinfectant. It kills disease germs, cleanses the skin, disinfects the hair and gives a pleasant odor to barns and stables.

It is not sticky or gummy, does not blister, does not taint milk or stain the hair.

½ gal. ....	\$1.00
1 gal. ....	1.75
5 gal. ....	8.00





## GENUINE HIGH POWER COLEMAN MANTLES

GIVE MORE LIGHT, MADE STRONGER  
GIVE BETTER LIGHT, LAST LONGER

Made especially for use on Coleman Quick-Lite Lamps and Lanterns.

Repeated tests have proved that Coleman Mantles give the user of Coleman Quick-Lite Lamps and Lanterns the best quality of light, the greatest quantity of light, and the longest, most satisfactory lighting service—all at the lowest cost possible.

Per pair, 20c; per dozen, \$1.00, postpaid. German Silk Mantles, per pair, 20c; per dozen, \$1.00, postpaid.

## COLEMAN GENERATOR 39c

Q-99—Longlasting, each, 39c; postpaid, 44c. Two for 75c; postpaid, 80c.

Coleman Straight Generator, each, 20c; postpaid, 25c; two for 35c; postpaid, 40c.

New Generator for the New Instant Lite Lamps and Lanterns, each, 40c.

We carry a complete line of repair parts for all Coleman Lamps and Lanterns. Write us your wants.



## NEW STYLE STRAIGHT GENERATOR

This new generator fits all styles of Coleman lamps and lanterns. Quickly installed. Each, 25c, postpaid.

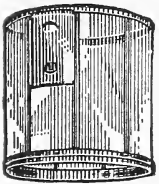
Q18 GAS TIP



Q77 GENERATOR

## NEW AMERICAN TYPE GENERATOR

This new type generator fits all of the new style Instant Lite Coleman lamps and lanterns and is self cleaning. A wonderful saving to all Coleman users. New automatic cleaning device enables one to use a lower grade fuel and still maintain a brilliant light. Each, 60c, postpaid.



## NO. 327 MICA CHIMNEY

For Standard Model Quick-Lite Lanterns, L327 and L427. Also for Poultry House Quick-Lite Lantern No. E20. Has shutter covered opening to insert matches for generating and lighting lantern. Diameter 5 inches, height 5 1/2 inches.

Each, 90c; postpaid, 98c.

## NO. 333 INSECT SCREEN

Made of strong wire heavily coated with asbestos. Protects mantles from flying insects. Each, 90c; postpaid, 98c.



Get Our Prices  
on  
Coleman Lamps  
and  
Lanterns



15c

## THE ROYAL MASON JAR WRENCH

Will loosen the most obstinate cover with ease. Also valuable for sealing a jar absolutely tight. Each, 15c, postpaid.



EACH \$2.25

## IMPROVED CYCLONE SEEDER

Has a slope feed board. This feature is found in no other seed sower. The improved "Cyclone" is guaranteed to sow perfectly a seed that can be sown broadcast, such as clover, timothy, millet, alfalfa, rape, wheat and oats. Nothing to get out of order.

Price, \$2.25, postpaid.

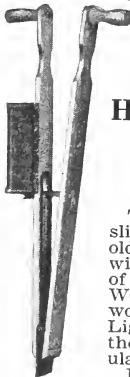
## ROTARY AUTOMATIC CORN PLANTER \$2.35

Extreme accuracy of drop due to novel exclusive and common sense design of seed plates and brass spring cut-off of stripper.

Every convenience for use; no tools required to make adjustments; simple, strong and durable. This planter will accurately and easily plant your favorite number of kernels in every hill all day long. Used just like a walking stick.

WILL NOT CRACK OR BIND THE CORN.

No. 309—Weight, 8 lbs. Each, \$2.35.



## HAND CORN PLANTER \$1.50

The two-hand, slide type, is the oldest and most widely known form of corn planter.

Won't crack corn; won't grind or bind; won't wear quickly like a cast slide. Light and strong. Operates easily from the start. This is one of the most popular hand planters ever sold.

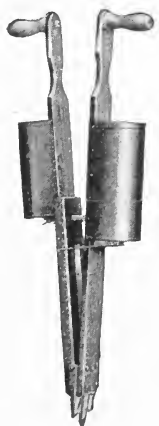
Price, \$1.35, postpaid, \$1.50.



## ACME CORN PLANTER WITH FERTILIZER ATTACHMENT \$2.35

Made with the famous two-hand slide type. Divided jaws prevent corn being deposited in contact with fertilizer. Plant your corn this year with the new type fertilizer planter and obtain a more uniform stand without bunching of stocks and also early matured corn on account of planting fertilizer at the same time corn is planted.

No. 308—Weight, 8 lbs. Each, \$2.35.



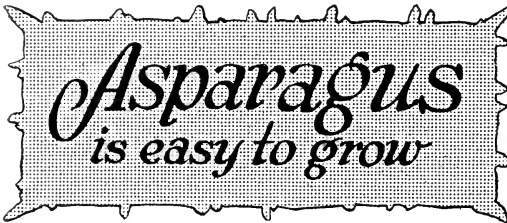
# Vegetable Seeds

Our Northern Grown Hardy Vegetable Seeds

Are Best for All Climates

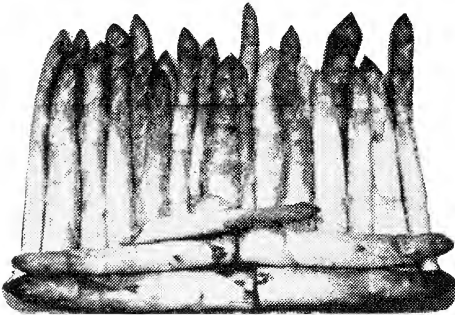
The home-gardener and the commercial grower will find in our Vegetable Seed Department a list of the most dependable varieties—the best of both old and new sorts. We do not offer as many varieties as some seedsmen, as we weed out the less desirable sorts, and offer only the best.

The best test of a seed is the crop it produces. "X-L" Brand Northern Grown Hardy Seeds have no superior.



Pkg., 10c; oz., 25c; 1/4 lb., 60c, postpaid.

Once established, it is good for years. The older the bed, if properly cared for, the better and more tender the shoots. It is one of the most wholesome and delicious of all early spring vegetables. Matures and is ready for consumption earlier in the spring than any other vegetables. Two-year-old roots are most desirable for quick results.



**WASHINGTON** — This asparagus which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor.

## Asparagus Roots

Our two-year-old Asparagus roots are heavy, clean stock that will make a vigorous growth the first season and are the Washington Rust Proof Variety, which we consider to be the best by far. Postpaid prices, doz., 60c; 25, 85c; 100, \$2.75, postpaid. Write for prices in larger lots.

## Semesan Disinfectant

Increases the Yield of Beans



### Semesan Disinfectant Increases Yields of Beans

On the right are pods picked from a single Semesan-treated plant, while those from a typical untreated one are shown on the left. Note the larger number, better development and also greater yield caused by Semesan treatment.

**SEME SAN**  
DU PONT  
Makes Seeds Healthy

## GRAHAM & ROSS

### "Get Acquainted" Special

Farm Garden Collection .....	\$1.75
1/2 lb. Beans (Golden Wax) .....	.30
1 oz. Beets (Detroit) .....	.15
2 pkt. Carrots (Danver H. Long)....	.10
1 pkt. Cabbage (Danish Ball Head)...	.05
1/2 lb. Corn (Golden Bantam) .....	.30
1 pkt. cucumbers (Early Fortune)....	.05
1 pkt. Lettuce (Grand Rapids) .....	.05
1 pkt. Head Lettuce (Iceberg) .....	.05
1/2 oz. Onions (Yellow Globe Danver)...	.15
1/2 lb. Peas (Little Gem).....	.30
2 pkts. Parsnips (Hollow Crown)....	.10
1 pkt. Pumpkin (Sugar or Pie).....	.05
1 pkt. Pumpkin (Conn Field) .....	.05
1 oz. Raddish (Early Scarlet Globe)...	.15
1 pkt. Squash (Hubbard) .....	.05
1 pkt. Spinach (Long Standing).....	.05
1 pkt. Turnip (P. T. Strap Leaf).....	.05
1 pkt. Rutabaga .....	.05

Value if ordered separately.....\$2.05  
PRICE, POSTPAID .....\$1.75

The only organic mercury disinfectant that can be used in either dust or liquid form, and requiring such simple (even home-made) equipment and a minimum of skill. Tested and recommended by agricultural colleges and experiment stations, farmers, market gardeners, florists, nurserymen, country clubs, and country estate supervisors. The cost? Not more than 1c and often as little as 1/4c per pound of seed!

Come in and get a supply of free Crop Booklets.

### Prices for Semesan

2 oz.....	\$ 0.55
3 oz.....	1.65
1 lb.....	2.85
5 lbs.....	13.00

Send for FREE Semesan Booklets. Any crop is better when Semesan is used.



## BUSH LIMA BEANS

Per pkt., 5c and 10c;  
 1/2 lb., 25c; 1 lb., 45c,  
 postpaid.

**BURPEE'S BUSH**—The old standard Bush Lima Bean. The bushes are 18 to 20 inches high, of stout, erect growth; branch freely and are very prolific. The pods are well filled with large, fleshy beans of excellent quality. Delicate pale green in color and possessing that rich, buttery flavor of the pole variety.



Kentucky Wonder

## POLE BEANS

Per pkt., 5c; large size, 10c; 1/2 lb., 30c; 1 lb., 50c, postpaid.  
 Not Postpaid  
 1 lb., 40c; 5 lbs., \$1.90.

**KENTUCKY WONDER (Green Pod)**—This standard variety of Green Podded Pole Beans became popular through its rapid growth and abundant yielding qualities. It has been successfully grown in every section of the United States. Being extensively used as a corn bean, the pods are exceptionally long and often measure 10 to 12 inches, perfectly round and stringless when young. A good sort to plant around fences, for it will climb and completely cover them in a short time. If allowed to ripen and dried, beans are good for winter use.

**KENTUCKY WONDER WAX**—The earliness and hardness of this variety recommended it for growing even in northern states. It is extremely productive with pods nine inches long.

## Pole LIMA Beans



**EARLY JERSEY**—This variety is one of the earliest of the pole Limas. Pods are 4 inches in length and contain 3 and 4 large beans each. It is specially recommended for this northern latitude, as it gives much better results than can be obtained from any of the other varieties on account of its earliness and productivity.

## Flowering Beans

### Scarlet Runner

Pkt., 5c; 1/4 lb., 20c 1/2 bl., 35c; 1 lb., 60c, postpaid.

Splendid for covering trellis work, or old fences. Flowers are bright scarlet. Produces fine, broad, flat, deep, green pods, which are edible. This bean is both ornamental and useful.

## Beans

### "X-L" Hi-Germinating

All Our Beans Are Hand Picked

**CULTURE**—Do not plant them until the ground becomes dry and warm. Bush beans may be planted about 2 inches deep in drills from 24 to 30 inches apart, according to variety and soil, placing the seed 3 inches apart, or 4 seeds in hills 24 inches apart each way; 2 pounds per 100 foot drill.

Cultivation should be frequent until the plants begin to bloom, but only when the foliage is dry, for if disturbed when wet the vines will rust.



## FIELD BEANS

### Great Northern

Perl lb., 20c, postpaid.  
 Not Postpaid

5 lbs., 50c; 25 lbs., \$2.40; 50 lbs., \$4.25; 100 lbs., \$8.00

The hardest bean for the Northwest. One of the most profitable sorts that can be raised. Is sweeter, more tender, cooks in a shorter time, and more readily digestible than pea beans.

## Dwarf Wax and Green Pod Beans

Per pkg., 5c and 10c; 1/2 lb., 30c; 1 lb., 50c, postpaid.

NOT POSTPAID—1 lb., 40c; 5 lbs., \$1.90.

### Burpee's Stringless Green Pod

Very popular and widely grown. Plant large, medium, very erect when young, and very hardy, heavily to moderately productive. Pods are somewhat variable in size, about 5 inches long, generally more or less scimitar curved, extremely brittle, absolutely stringless, usually contain six seeds very crowded in pod.

### Davis White Wax

This bean does not discolor, and is therefore excellent for canning. Pods are very uniform in size, about 6 inches long, straight, flat, light yellow, slightly depressed on outside between seeds. The dry bean is white and very desirable for winter use.

## Garden Nitrigin

### Every Gardener Should Know



That Peas, Beans, and Sweet Peas belong to the Legume family and form a partnership at the roots with certain kinds of helpful bacteria called Legume Germs. It is therefore necessary to inoculate this seed. A trial will convince you that inoculation pays. Per can, 25c. Will treat from 1 oz. to 8 lbs. of seed.



Improved Golden Wax quality. Green shell pods borne both below and above foliage.

**UNRIVALED WAX**—There is probably no variety of Wax Bean grown that has a greater all-round value than this one. It has a small plant, is very early, and bears enormous crop of pods about  $5\frac{1}{2}$  inches long, somewhat curved, semi-flat, rather slim, but fleshy, and of the finest texture and tenderness. The color is a translucent yellow.

**WEBBER WAX**—Unquestionably one of the best wax-podded beans ever introduced. It is a market gardener's bean. The pods are of an exceedingly bright yellow color, round and meaty.



## GARDEN BEETS

Prices, per pkt.  
5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.00, postpaid.

Not prepaid, 5 lbs., \$4.25.

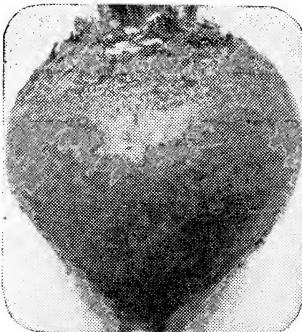
**CULTURE**—One ounce to 50 feet of drill; 5 to 7 lbs. per acre.

To get the greatest pleasure out of Beets they should be used while quite young. To have a constant supply of always tender young Beets in your home garden, sow a 15-foot row every week or two, from as early in the Spring as the ground can be worked until the middle of July.

Beets may be readily grown in any soil, but the finest Beets are grown in a deep, rich loam. Sow in rows 18 to 24 inches apart, cover the seed with about one-half inch of soil and firm the soil around the seed by walking along the rows. When the Beets are about 4 inches high thin them to 3 or 4 inches apart. In thinning the young plants are usually used for greens. Both top and small root are cooked together, and with a little seasoning, they are delicious.

For Winter use, make a large sowing in mid-summer. Before frost, harvest and pack them in sand in the cellar and you will have fresh Beets far into the winter. In harvesting do not cut the tops too close.

**EXTRA EARLY BLOOD**—This beet is very early; ringed red and white, absolutely perfect in shape; roots are globular and peculiarly smooth; very crisp, fine grained and sweet at all stages of its growth. Has small tops and can be used six weeks from sowing.



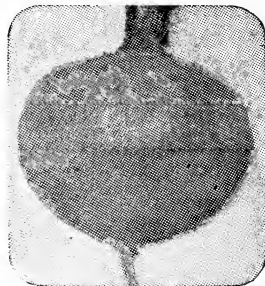
Extra Early Blood

**IMPROVED GOLDEN WAX**—Plants are small, compact, erect, and very prolific. Pods are borne well off the ground which prevents rust and rot, are of golden yellow color, brittle, fleshy and solid with wax-like texture, average about five inches and are ready to pick in 45 days after planting. The flavor is excellent. A good shell bean for winter use.

**PENCIL POD BLACK WAX**—Plant grows about 15 inches high, very productive, with straight pods about 6 or 7 inches long, light golden yellow color, round, meaty, and deeply creasebacked, extremely brittle, without fiber and of excellent

**EXTRA EARLY EGYPTIAN**—(42 days). One of the earliest Beets. The color of the flesh is a dark purplish red zoned with a lighter red shade. Roots are rounded on top but flat on bottom ends. Small tap root and sparse foliage make this variety suitable for forcing.

**DETROIT DARK RED**—(55 days). Roots round and medium size, good deep red color. An old time standard for home gardens, market or canners.



Detroit Dark Red

## BEETS FOR STOCK FEEDING

Splendid Winter Feed for Cattle, Hogs, Poultry, Sheep, Etc.

Our Seed is Danish Grown—Buy No Other

**CULTURE**—Both Mangels and Sugar Beets require deep, well enriched soil. Sow in May and June in rows 18 inches to 2 feet apart and 6 to 8 inches in the row. Young plants may be transplanted to fill up vacancies. As soon as frost occurs, dig the crop. For Winter store in cellar or in pits.



## MANGEL WURZELS

Prices, all varieties, postpaid: Pkt., 5c;  $\frac{1}{4}$  lb., 25c; 1 lb., 60c; 5 lbs., \$2.25.

**MAMMOTH LONG RED**—This is a very large and heavy mangel. Roots grow one-half to two-thirds above the soil and are often two or more feet in length and nine inches in diameter. Skin dark

red, flesh white, with veined rings of pink.

**GIANT HALF SUGAR**—This is neither a mangel nor a sugar beet, but as the name implies is a cross between the two. It has the large size of the mangel with the great feeding quality of the sugar beet. It will yield almost as many tons per acre as the best mangels, twice as much as the sugar beet. It has become the most popular beet grown for stock feed. As all grains are now higher, more stock beets should be planted.

**GOLDEN TANKARD**—The best known and highly recommended for dairymen on account of its milk-producing properties and the rich quality of the milk. The flesh is firm and solid and a rich golden yellow color. On account of its peculiar shape they can be grown closer in the rows than most mangels, increasing the yield per acre considerably. Grows well above the ground and is easily pulled. Yields particularly well on light soil.

**GIANT ECKENDORFER**—A very popular variety, grown extensively in Germany. It has also proven very satisfactory in the United States wherever it has been tried. Its roots are very heavy. It has been known to produce as much as 55 tons of roots to the acre. This variety is very easily harvested, as a large portion grows above the ground.

## SUGAR BEETS

**WANZLEBEN**—This is the variety so extensively planted for sugar manufacture. Although it does not yield quite as large crops as mangels, the feeding value, pound for pound, is much greater on account of its high percentage of dry matter content. Recommended especially for fattening cattle, but is equally well adapted for general feeding as mangels.

## SWISS CHARD OR SPINACH BEET

One ounce will sow 100 feet of row.  
Per pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

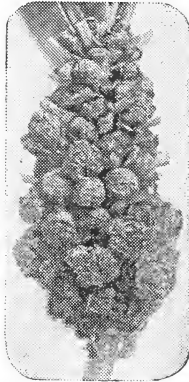
**GIANT LUCULLUS**—The Swiss Chard or Spinach Beet is prepared for the table in the same manner as spinach; sometimes, however, the midrib is prepared like asparagus. Seed planted early in the Spring will quickly produce plants from which cuttings may be made in 24 days, and continued all Summer, as you can cut right down to the ground, and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large, curly leaves, with thick, light colored midribs, which are delicious when cooked and served like asparagus.

## BRUSSELS SPROUTS

(Species of Cabbage; cultivation the same.)

**CULTURE**—This is a delicious vegetable, superior to either borecole or spinach. The small cabbage-like heads which grow upon the stem are much improved by a moderate frost. Sow in hotbeds in early spring and in the open ground in April; cultivate same as broccoli.

**DWARF IMPROVED** — A variety producing compact sprouts of excellent quality. Pkt., 5c; oz., 35c; 2 ozs., 60c; ¼ lb., 90c, postpaid.



Brussels Sprouts

## BROCCOLI

One ounce seed will produce about 2,000 plants. Give them the culture required for cauliflower, as it is very similar. It is generally taller and the heads are more divided. Broccoli stands greater extremes of temperature than cauliflower and is better adapted for late fall planting. Broccoli can be sown either in the spring or fall.

**EARLY WHITE CAPE**—The best variety; heads white, compact and hardy; a vigorous and easily grown sort. Pkt., 10c; ½ oz., 70c; 1 oz., \$1.25, postpaid.

## CABBAGE

### "X-L" Hi-Germinating

**CULTURE**—For the earliest supply, seed should be sown in the house, or hotbed, and the plants set out as early as the ground is ready, 1½x2 ft. in the garden, or 2x3 ft. in the field. For fall crop the seed should be sown in June and transplanted to the field in July.

### FIRST EARLY

**GOLDEN ACRE**—The finest variety that has been developed in years. Once used, it is preferred by all people on account of the extreme earliness, perfect heads, and wonderful keeping qualities. It will mature about 7 days ahead of the earliest strains of Jersey Wakefield, considered the standard early of the country. Pkt., 10c; oz., 40c; ¼ lb., \$1.50.

**EARLY JERSEY WAKEFIELD**—The earliest and most sure-heading of the first early cabbages and largely grown in the South for shipment to early northern markets. Plants exceedingly hardy, with a short stem; heads of medium size, very solid, uniformly pointed and excellent quality. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

**"X-L" BRAND EARLY SPRING**—The earliest flat head, as early as Jersey Wakefield. Yields one-third more than the early pointed heads. Solid, uniform and finely grained heads. Stem is short and extends but little into the head. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00.

**COPENHAGEN MARKET**—The finest large, round-headed, early cabbage. Very solid; of fine quality; short-stemmed. Pkt., 5c; oz., 35c; ¼ lb., \$1.15; lb., \$3.50, postpaid.



Early Winnigstadt

**EARLY WINNIGSTADT**—It is a sure header, even where other sorts may fail and seems to be less liable to the attacks of cabbage worm than many other varieties. Matures in 90 days. Pkt., 5c; ½ oz., 20c; 1 oz., 30c; ½ lb., \$1.60.

**GLORY OF ENKUIZEN**—The earliest and largest white Cabbage—attractive for market purposes. Solid with large flat shaped heads thin-ribbed and hard, few outside leaves; exceedingly tender. Is a dwarf and compact grower; allowing close planting; will yield more tons per acre than any other variety, 90 days. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., 95c; lb., \$2.75, postpaid.

### SECOND EARLY VARIETIES

**SUCCESSION**—A good summer cabbage, providing one is able to secure true stock. We have the true imported stock and our customers are pleased with the splendid solid heads obtained from this variety. A good cabbage to succeed itself. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50.

**EARLY DWARF FLAT DUTCH**—An early cabbage of good size. Heads are flat and very solid. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

### LATE OR WINTER VARIETIES

**LARGE LATE FLAT DUTCH**—For a main or fall crop of large flat heads nothing is superior to this sort. It is very hearty, a reliable header and never disappointing when a good strain is planted. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00.



Danish Ballhead

**DANISH BALLHEAD**—A well known variety on account of its solid heads and unsurpassed keeping qualities. Heads are of medium size with few outer leaves. Solid, crisp, tender with small amount of waste. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; ½ lb., \$1.60; 1 lb., \$3.00, postpaid.

**AMERICAN SAVOY**—The best crumpled leaf cabbage. The Savoy cabbage is noted for its fine and delicate flavor. The leaves are wrinkled or densely crumpled. Matures fine large heads. A good keeper, and one of the best sorts for the home garden. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

**CHINESE (PE TSAI)**—Commonly known in the markets as Celery Cabbage; blanches white; used in salads or cooked. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

**RED ROCK**—The largest and surest-heading red cabbage. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$2.50, postpaid.

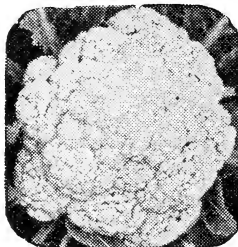
for Early, Crisp Vegetables

feed them this complete,  
balanced diet



**"X-L" Hi-Germinating****Cauliflower**

**CULTURE**—Cultivate as directed for cabbage. In dry weather water liberally. Cauliflower likes a cool, moist situation.



**EXTRA EARLY SNOWBALL**—One of the best for forcing or open ground.

**DRY WEATHER**—This variety is especially adapted for long, dry seasons.

**PRICE**—Pkt., 15c; ¼ oz., \$1.00; oz., \$2.00; ¼ lb., \$7.50.

SEE OUR COMPLETE LINE OF STARTED VEGETABLE PLANTS ON PAGE 44.

**Table CARROTS in greatest demand**

Per pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.10, postpaid.

Not postpaid, lb., \$1.00; 5 lbs., \$4.50.

**CULTURE**—Hardy and easily grown and therefore one of the most satisfactory vegetables for the home garden. Young carrots when boiled and served with cream sauce are delicious. Soups and stews are not complete without carrots and they are also served in many other ways.

Any garden soil will grow carrots. For early crops sow early in the spring as possible and in rows eighteen inches to two feet apart. Cover not more than ½ inch deep. When the plants are about three or four inches high thin out to two inches apart for the small early varieties and four inches apart for the late ones. Give them plenty of room. Keep them thoroughly hoed.



Danver's Half Long

A packet will plant about 20 feet; an ounce 150 feet; and three pounds, an acre. The late crops should be dug up in the autumn and stored like Turnips and other root crops.

**CHANTENAY****CHANTENAY OR MODEL**

A Guerande of considerably longer size. Inner part of root a little lighter than the outer. It is delicate in flavor, juicy and sweet. Largely planted as a medium early variety.

**DANVERS HALF LONG**—Fine for table use and best of all for the stock breeder, since it is a wonderful producer. It is a slender half-long root, very well colored, and has a blunt end. Leaves are short, finely cut and somewhat bronze.

**IMPROVED LONG ORANGE**—For stock feeding and table use. Fed to milch cows and gives to the butter a fine flavor and a beautiful golden color. Root is about six times as long as broad, pale orange on the underground portion, and quite green above ground, or for about one-fourth of its entire length. It is a good keeper.

**OX HEART OR GUERANDE**—One of the best carrots for the table. It is remarkable for its great size and quickness of growth. Often its length does not much exceed its thickness, which measures sometimes ¾ inches in diameter. The flesh is very tender and delicate, and a beautiful orange-red, paler at the center. Foliage is light and rather scant. It requires a light, substantial, well fertilized soil, and moisture.



Oxheart

**Carrots for Stock Feeding**

Per pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

Not postpaid, lb., 80c; 5 lbs., \$3.75.

**LARGE WHITE BELGIAN**—Grows one-third out of the ground.

Roots pure white, green above the ground and has a shell top. It will grow to a very large size on rich soil and is very easily gathered. Flesh rather coarse and used exclusively for stock feeding purposes.

**LARGE YELLOW BELGIAN**—Practically the same as above only the flesh is yellow. This is also a very good keeper.

**"X-L" Hi-Germinating****CELERY**

**CULTURE**—Sow in beds in February or March and keep well watered. Transplant from July to October to moist, mucky soil, six inches apart in 12-inch rows. Earth up two or three times. Cover with straw from severe weather, with boards on top.

**GOLDEN PLUME OR WONDERFUL**—(100 days).

The earliest variety of Celery grown. Blanches more rapidly than any other Celery, in fact, it can be blanched in five days. The stalks are short and the heart is large and solid. Being more vigorous than Golden Self Blanching, it withstands heat and blight better. This Celery is a beautiful gold in color, brittle and of the highest table quality. Golden Plume is not long keeping and in shipping should be handled promptly when ready for market. Pkt., 15c; ½ oz., 80c; oz., \$1.20; ¼ lb., \$3.25; lb., \$9.50, postpaid.

**GOLDEN SELF BLANCHING**—(120 days). This is the original type, known as the Vilmorin Old Type. It is of dwarf, compact growth, with thick, solid, heavily ribbed stalks which blanch easily to a clear, waxen yellow. The stalks are crisp and solid, free from stringiness, and of most delicious flavor. Yields a good crop of heavy and brittle stalks. Pkt., 10c; ½ oz., 45c; oz., 65c; ¼ lb., \$2.00; lb., \$5.75, postpaid.

**WINTER QUEEN**—The most valuable winter celery. Largest and heaviest hearts of any celery we know. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

## GARDEN SWEET CORN



"X-L" Burbank Bantam, grown by L. Hanson, Vaughn, Montana.

### "X-L" Hi-Germinating

Prices of all corn except where otherwise priced: Pkt., 5c and 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; postpaid, 5 lbs. \$1.60 not postpaid.

**CULTURE**—Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound.

**BURBANK BANTAM**—We consider this new variety of corn a gold mine for the market gardener. Much earlier than the original Bantam, yet it contains the original Golden Bantam flavor. A tremendous yield of large ears containing from 14 to 16 rows. Pkt., 10c; ½ lb., 20c; ½ lb., 35c; 1 lb., 60c.

**GOLDEN BANTAM SWEET CORN**—A very early sweet corn with golden yellow grain, very tender and of excellent quality. The ears are six to seven inches long and of the medium size found most suitable for the table. The flavor is exceptionally rich and delicious.

**PEEP O'DAY**—For earliness, flavor, sweetness and productiveness, it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

## POP CORN

Does well on sod land, or where clover has been turned down. Plant when danger of frost is over, in hills 3 to 4 feet apart each way, leaving three to four stalks to the hill. Cultivate thoroughly but shallow. Use 4 pounds to the acre.

**MONARCH WHITE RICE**—Everybody knows the old variety name White Rice. Our strain is an improvement, with large ears, more abundantly produced. The grains are sharply pointed. Handsome ear.

## CHICORY

**WITLOOF CHICORY OR FRENCH ENDIVE**—Grown for its use as a salad, the blanched head resembling Cos Lettuce in appearance. The seed planted in late spring give parsnip-like roots by late autumn. The roots are then placed in earth where there is some heat, as in the greenhouse boiler room, or a warm cellar. The root then throws out the blanched salad head. Pkt., 5c; oz., 30c.

## COLLARDS

A form of cabbage or kale much grown throughout the South. It produces large leaves and at times a modified head on a tall stout stem. Freezing does not injure but rather improves the quality.

**GEORGIA, SOUTHERN or CREOLE**—We offer the true white or green stemmed sort. Pkt., 5c; oz., 25c.

## CELERIAC

**GIANT SMOOTH PRAGUE**—This vegetable is used for two purposes; the leaves are cut when young and used to flavor soups and meats; the roots are boiled, sliced, cooled, and served as a salad. 125 days. Pkt., 5c; oz., 25c; ¼ lb., 80c; lb., \$2.50, postpaid.

## MOUNTAIN GROWN CUCUMBER SEED

**CRISP, COOL, APPETIZING CUCUMBERS**—Can only be taken from your own garden. Fresh Cucumbers are much more crisp and tender and of superior flavor to those which you can buy at the stores; that peculiar toughness and bitterness is missing. Grow your own, have plenty for both slicing and pickling.

**CULTURE**—One ounce to 50 hills; 2 to 3 pounds per acre. After danger of frost is past plant in hills 3 by 6 feet apart and thin to 3 plants to a hill. Seed can be planted in boxes or paper pots in a hotbed, but Cucumbers do not transplant readily unless a mass of soil adheres to the roots. Pick fruit as soon as large enough to use, do not allow any Cucumbers to ripen on the vines.

**IMPROVED EARLY WHITE SPINE**—(60 days). Early and productive. Cucumbers are quite uniform, 7 to 8 inches long, well rounded at the ends, and a bright green color. Fine for slicing, but not as good a shipper as some of the newer types. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, 5 lbs., \$6.25.

**EARLY FORTUNE**—(58 days). Very attractive slicing and shipping variety. Early, productive and disease resistant. Cucumbers 9 inches long, slightly tapering and with distinct light stripes at the blossom end. Flesh firm, holds up well in shipping. The shipping trade find our continual selection makes this variety very uniform. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, 5 lbs., \$6.25.

**DAVIS PERFECT**—(65 days). A beautiful slicing Cucumber. An excellent shipping type, fruits are long and very attractive. Firm white flesh and few seeds. Good deep green color and holds up well. Does fine in the open ground, although this was originally a greenhouse type. Davis Perfect is one of the varieties on which we have done par-



"X-L" Davis Perfect Cucumber, raised at Vaughn, Montana, last season.

ticularly careful selection work as it is of such great value to the commercial gardener. Length 10 inches, smooth and tapering at both ends. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, 5 lbs., \$6.25.



**A NEW CUCUMBER CALLED "THREE TO THE YARD"**—This is a new variety introduced by Vaughn Seed Co. It has so many advantages over the other varieties that we feel that it will soon become the leading variety. Very early bearing, long firm plants from 7 to 12 inches in length. The fruit is green to the ends or tip, solid, crisp and of excellent flavor. We recommend this variety to you. Per pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$3.00.

## BLACK SPINE VARIETIES

These are used mainly for pickling as they make fine, solid pickles that keep in excellent condition. The longer varieties are also used for slicing. Black Spine types are not suitable for shipping, as they do not hold solid long after pickling.

**IMPROVED LONG GREEN**—(65 days). The standard home garden, slicing and pickling type. Prolific, hardy and disease resistant. Beautiful long Cucumbers contain very few seeds. The small pickles are very well shaped, used both for small pickles and for dill pickles. Length 13 inches. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, 5 lbs., \$6.25.

**CHICAGO PICKLING, WESTERFIELD** — (60 days). Very uniform type. Grows large enough to use for dill pickles. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, 5 lbs., \$6.25.

## CRESS

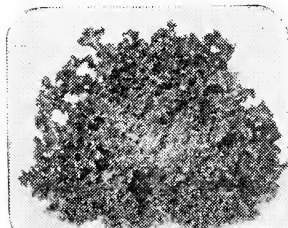
Splendid for salad, garnishing. Sow seed one foot apart in open ground. Sow often for succession, as it soon runs to seed. Water Cress requires a stream of running water, ditch or pond, in which it will grow without care, except at first keeping weeds from interfering with it.

**EXTRA CURLED OR PEPPER GRASS**—The leaves of this small salad are much frilled or curled, and are used for garnishing. Pkt., 5c; oz., 15c; ½ lb., \$1.00, postpaid.

**TRUE WATER**—A fair growth may be obtained in soil which is kept wet but does best when grown along moist banks or in tubs in water-covered soil. The seed is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams. The plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. Pkt., 10c; ½ oz., 40c; 1 oz., 75c; ¼ lb., \$2.25, postpaid.

## CORN SALAD

**FETTICUS, or LAMB'S LETTUCE**—This small salad is used during the winter and spring months as a substitute for lettuce, and is also cooked and used like Spinach. In warm weather the plants will mature in four to six weeks. Sow the seed in shallow drills about one foot apart. If the soil is dry it should be firmly pressed over the seed in order to secure prompt germination. On the approach of severe cold weather, cover with straw or coarse litter. Like most salad plants, greatly improved if sown on very rich soil; indeed, the ground can scarcely be made too rich for them. Pkt., 5c; oz., 25c; ¼ lb., 50c.



## ENDIVE

One ounce will sow 300 feet of drill; 2 lbs. per acre. Plant from April to July, thin to 1 foot apart.

**GREEN CURLED WINTER** — (75 days). A tasty salad, of more attractive appearance than lettuce. and more highly flavored. When fully grown tie tips of leaves together and center leaves will quickly blanch a creamy white. Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25, postpaid.

**BROAD-LEAVED BATAVIAN or ESCAROLLE** — (90 days). Leaves are large and broad, forms a large head which can be readily blanched. Used as a flavoring for soups and stews, but is more generally cooked like spinach. Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25, postpaid.

## EGGPLANT



New York Improved

Per pkt., 10c; ½ oz., 25c; oz., 50c; ¼ lb., \$1.60, postpaid.

**CULTURE**—Sow in hotbeds very early in the spring; thin them out, as soon as big enough to be handled, to 3 or 4 inches each way and transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside until the nights are real warm, as the least frost will, if it does not kill them, check the growth. Hoe often and hill up gradually, until they blossom. One ounce will make 1,500 plants.

Every garden should have a few Egg Plants. These are easily grown and bear a good crop with little attention. Egg Plants, sliced, and fried are delicious and would be much more popular if better known.

**NEW YORK IMPROVED LARGE PURPLE SPINELESS**—Stem stout, not very tall, usually branching, and of a gray-green, slightly or not at all tinged with purple. Fruit is very large, of a short pear-shape and slightly flattened at both ends. The flesh almost entirely fills the interior of the fruit, leaving but little space for seeds. This is a favorite for home and market garden.

## GARLIC

The Garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root, or bulb, is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Write for prices on large lots. Lb., 40c, postpaid.

## HERBS

Sow in rich soil in shallow drills. When a few inches high thin out or transplant. Harvest on a dry day, just before they are in full blossom, dry and pack in dry, air-tight containers.

**CARAWAY**—Seeds used for flavoring, and in the making of cheese. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.

**DILL**—Leaves and seed heads are used for flavoring pickles. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.

**LAVENDER**—A perennial grown for its fragrance. The flowers are used for making perfume. Pkt., 10c; ½ oz., 45c, postpaid.

**SWEET MARJORAM**—Leaves and ends of the shoots are used for flavoring, both green and dried. Pkt., 10c; ½ oz., 20c; oz., 30c, postpaid.

**SAGE**—One of the most useful herbs, lightly aromatic. The leaves and tops are used for seasoning and stuffing. Pkt., 10c; ½ oz., 20c; oz., 30c; lb., 90c, postpaid.

**THYME**—Used for seasoning. A tea is also made for nervous headache. Pkt., 10c; ½ oz., 40c; oz., 60c, postpaid.

## KALE

**PLANTING DIRECTIONS**—1 oz., for 5,000 plants; 2 oz., for an acre.

Cultivation is similar to cabbage. Very hardy and used mostly during the winter. The leaves are best after touched by frost and may be left during winter. Sow in May in a rich, light soil, in rows 2½ ft. apart and thin to 2 inches in the row, or sow in boxes or frames and transplant. Cultivate often.

**DWARF CURLED SCOTCH**—A finely curled dwarf spreading variety; very hardy and used extensively for greens. Planted largely in the South for shipping, also used for the garden and for garnishing. Leaves are long, an attractive green. Pkt., 5c; oz., 20c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50.

## KOHL-RABI

**CULTURE**—A peculiar vegetable belonging to the cabbage family and forming a turnip-shaped bulb above the ground which is used in the same manner as turnips. For garden cultivation, give same treatment as cabbage. Sown in June or July for fall use.

**EARLY WHITE VIENNA**—A very satisfactory variety; of good quality. Pkt., 5c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

## LEEK

**PLANTING DIRECTIONS**—One third ounce to 100 ft. row; 5 lbs. to one acre.

Similar requirements as for Onions. Sow early in April in rows 1 ft. apart, covering one inch. Transplant or thin to 6 inches apart in row. When transplanting set the plants deep so that the bottom will be bleached.

**LONDON OR AMERICAN FLAG**—A large variety of mild flavor. Grows tall and thick and of fine white color. Always popular with market gardeners, commanding a ready sale. Pkt., 5c; oz., 20c; ¼ lb., 75c, postpaid.

## SOUP PLANTS

Fresh vegetables for soup stocks are one of the luxuries of the home garden. Besides Parsley, Parsnips and Carrots, Leek—the Scotch standby—should be tried. The tops of the Celeriac furnish a fine celery flavor as a by-product to the roots.

**CULTURE**—Lettuce needs cool weather, plenty of moisture and plenty of room. Young lettuce plants are very hardy and for this reason the seed can be sown very early in the spring. The soil should be well prepared, the seed sown in rows about two feet apart, seeds about two to the inch and covered for ¼ to ½ inch. When the plants are about two inches tall thin them to two inches apart, then a little later to four inches apart. Repeat this until the plants will be one foot apart when mature. In growing head lettuce it is important that the heads develop as much as possible during cool weather. For this reason the seed is usually sown in hotbeds and plants set in the field when weather permits. One ounce will sow a row 80 feet long; four pounds to the acre.

## EARLY AND FORCING VARIETIES



Black Seeded Simpson

**GRAND RAPIDS**—A crisp, early-intermediate, quickly shooting to seed. A splendid shipper and considered by far the best and most profitable for forcing, by a great many gardeners. Color is very light green, and forms a very large head which is tender and sweet when grown in green-houses.

Pkt., 5c; oz., 20c; ¼ lb., 55c; 1 lb., \$1.50, postpaid.

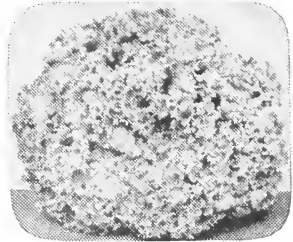
## LOOSE HEAD OR CUTTING VARIETIES

Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25, postpaid. These are of easiest culture and will supply your table with an abundant supply of fine lettuce. Don't forget to thin them out.

**BLACK SEEDED SIMPSON**—An especial favorite with both market gardener and home gardener, adapted to all parts of the country and grown everywhere. It succeeds in summer when other sorts of more delicate quality are failures. Plant is compact and consists of a firm, well blanched, rounded to elongated and V-shaped cluster of leaves, closely drawn together. Plant is of light green color.

**EARLY CURLED SILESIAN**—A favorite for many years. Of dwarf, compact growth with crisp golden leaves with fine curved edges.

**EARLY PRIZE-HEAD**—This lettuce forms a large, tender, crisp, loose head of bright green crimped leaves which are tinged with red. It is of superior flavor long remaining sweet, and slow to run to seed.



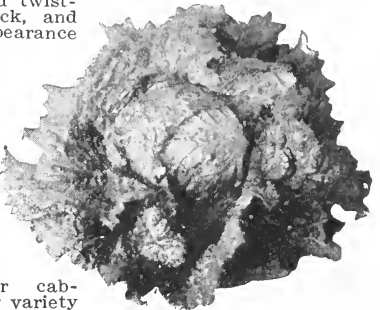
Prizehead Lettuce

## HEADING VARIETIES

Prices except where otherwise noted: Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

**HANSON**—Plant spreading, but not loose in habit, and forming a globular extremely hard, well-defined, well balanced head, with leaves blistered, crumpled and twisted, very thick, and coarse in appearance with large midrib. Very light green color, never spotted or brownish in any part. The quality is very good, exceedingly crisp and firm in texture and very sweet.

The standard summer cabbage-heading variety for either the home or market gardener. Heads often weight three pounds. Not recommended for forcing.



Hanson Lettuce

**ICEBERG**—It is a strictly cabbage variety; crisp rather than buttery; large and late. Head is globular, extremely hard and well blanched. Leaves are slightly blistered, crumpled and twisted.

**NEW YORK OR WONDERFUL**—Our stock of this variety is of extra selected pure strain seed. It is one of the most popular varieties, succeeding everywhere and is extensively planted in all parts of the country. A very crisp variety, strictly cabbage-heading, very large, late, extremely slow to seed. Leaves are broad in shape, fairly blistered, crumpled and twisted, thick, stiff, and with heavy veins and a large protruding midrib. The quality is good, exceedingly crisp and firm in texture, very sweet but never buttery in flavor. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

**WHITE PARIS COS**—Smooth, long, narrow upright leaves and blanches nicely when tied up; color dark green; quality fine; self-folding.

## CHISHA, OR CHICKEN LETTUCE



Iceberg Lettuce

You have doubtless read in the poultry journals that lettuce is an excellent feed for chickens. In this Chisha Lettuce you will find a feed that yields as much or more than other green feeds. It is economical to grow this strain, for when cut it resumes its growth rapidly and can be cut again and again; or the leaves can be pulled off each stem like the Jersey Kale. The yield is extremely heavy. Chisha, or Chicken Lettuce does not make a head, but sends up a stout stalk, 3 to 4 feet high just loaded with leaves.

Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.50.



## MUSTARD

### "X-L" Hi-Germinating

**CULTURE**—Sow thickly during early spring in shallow drills, and press the earth well down. For fall salad, sow in September, or in frames or boxes during winter. Needs to be gathered before it goes to seed.



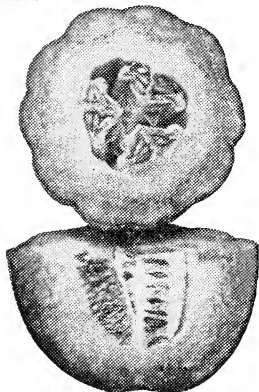
**SOUTHERN GIANT CURLED**—Leaves large, light green with a tinge of yellow; much crimped and frilled at edges. Used for flavoring salads, etc. Pkt., 5c; oz., 20c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50, postpaid.

## HARDY MUSKMELONS

### "X-L" Hi-Germinating

Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

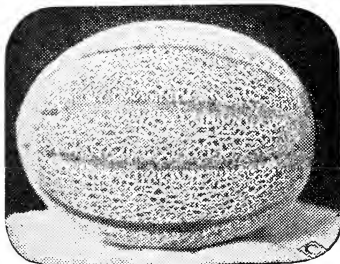
**CULTURE**—Muskmelons delight in moderately rich, warm, mellow loam. The seed should be planted in the spring upon the arrival of settled warm weather. Plant seeds 1 inch deep in hills, 4 to 6 feet apart each way, and as soon as the plants begin to run remove all but four of the most likely ones.



**IMPROVED EARLY HACKEN SACK**—(Green flesh). The result of selection and breeding from the famous old Hacken-sack. The new type is not so large as the old one, growing to the convenient size of 5 to 6 lbs., shape round, slightly flattened, deeply and broadly ribbed with bold netting. The melon is very handsome and rich looking. Flesh green, thick and sweet, delightful flavor. Just the flavor you like in green melons.

**IMP. ROCKY FORD**—(Greenflesh). It is one of the best and has been the most extensively grown and marketed variety of muskmelons. There are several strains of this fine melon, the result of different growers breeding to different types. Our O. K. strain of Rocky Ford gives all that can be desired.

**OSAGE or MILLER'S CREAM**—(Orange Salmon). Skin is dark green, slightly netted but nearly smooth, medium size, egg shaped. The thick, heavy, juicy, luscious, salmon flesh is what made it famous. There is scarcely any cavity for the seeds.

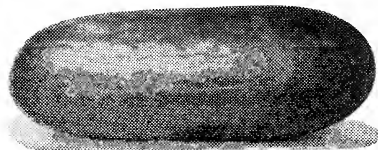


## WATERMELONS

### "X-L" Hi-Germinating

Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

**CULTURE**—Prepare hills 8 to 10 feet apart each way by working in thoroughly rotted manure, or poultry droppings—rich ground gives the plants a good start before insects attack them. When the ground is warm plant 6 or 8 seeds to the hill, covering an inch deep and, when well up, thin out, leaving three strong plants to each hill. Do not grow near pumpkins and gourds. Use the same insect remedies as recommended for cantaloupes.



**COLE'S EARLY**—Very hard, a sure cropper and extremely delicate in texture of flesh, which is of dark red color, rind is thin and extremely brittle, hence not desirable for shipping purposes, but possessing all the other most desirable features. We highly recommend it for home use.

**KLECKLEY'S SWEETS OR MONTE CRISTO**—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium to large size, oblong, tapering slightly towards the stem end, dark green, often showing fine russeting. Flesh very bright rich red, exceedingly sweet. So crisp and tender that it will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife.

**HARRIS EARLIEST**—The best of the extra early sorts. Fruit slightly oval with irregular mottled stripes of light and dark green. Flesh bright red sweet and tender. A desirable variety where the season is short. It is hardy, productive and the largest of the early kinds.

**VICK'S EARLY**—This variety is prized for its earliness. It is oblong in shape, smooth with a very dark skin, rather small in size; flesh bright pink, solid and sweet.

## MUSHROOMS

Mushrooms may be grown by anyone having a supply of fresh manure and a shed or cellar, or under a greenhouse bench where a temperature of 50 to 60 degrees is evenly maintained. They make a most profitable crop when successfully grown, and the American market is the best in the world for this most delicious of foods. Full cultural directions with every order.

**PURE CULTURE SPAWN**—Requires one brick of spawn for about nine square feet of bed. One brick, 40c; five bricks, \$1.75.

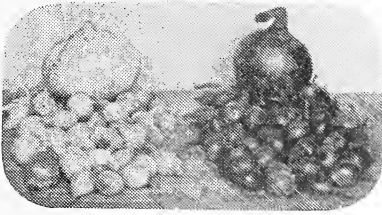
## ONION SETS

Eat More Onions at All Times

Medical authorities agree there is no vegetable more healthy than onions and advise the free use of onions both green and cooked. It is even claimed they are a preventive of Influenza and Grippe. Buy Onion Sets freely, plant double the usual quantity and replant several times in the early spring and summer so you will have plenty of onions to eat all months in the year.

**YELLOW**—Grown from seed of Strasburg or Yellow Danvers, either of which we can furnish. Yellow is the standard color for onions in many of the largest markets.

Per qt., 25c; 4 qts., 85c, postpaid. Per bu., 32 lbs., \$4.00, not prepaid.



## ONION PLANTS

Onion plants, produce the fine, sweet salad Onions for summer use. These Onions are grown from plants much earlier than they could be grown from seed.

The Onion plant is a small green Onion with the root on, well started, and grown from the finest varieties of Onion seed.

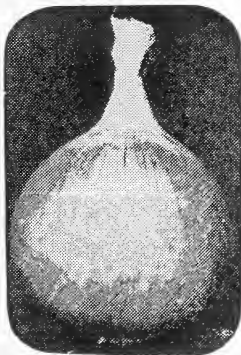
The live, green, well rooted, vigorous Onion plants are ready to go to work as soon as they are set in the field or garden.

**MOUNTAIN GROWN ONION PLANTS**—These plants are pulled at our farms and shipped to you fresh from the field. About 90 thousand plants are required to set an acre. Can be furnished in either Crystal Wax or Yellow Bermuda variety. Postpaid prices. Sold in the following amounts or multiples only. 30c per hundred; \$1.00 per five hundred; \$1.80 per thousand; \$8.00 per crate of six thousand.



**CULTURE**—Onions do best in sandy loam which has been fertilized. The seed is sown early in the spring in drills. If rows are 12 to 14 inches apart for hand cultivation, it takes 4½ pounds of seed per acre and if 24 to 36 inches apart for horse cultivation 1½ pounds to the acre. Onions must be cultivated frequently and also hand weeded to keep the weeds out.

## AMERICAN YELLOW VARIETIES



Prizetaker

and in weight. The bulbs remain in excellent condition until almost a year after harvesting. The skin is thick and of a rich brownish red color; the flesh is white, solid, crisp and mild. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00 postpaid.

**YELLOW GLOBE DANVERS**—A type preferred by home gardeners. It is of globular shape, flesh white, mildly flavored; skin brownish yellow. It is a good paying onion for general crop, being of a good size, a good keeper, and very productive. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid.

**PRIZETAKER**—The true type is a large globe, very handsome, of a bright clear straw color, with white flesh, which is firm and solid and of very mild and delicate flavor. No sets are required as the large onions grow the first year from seed sown in the spring. This makes it as desirable for the home garden as for the market. Pkt., 5c; oz., 20c; ¼ lb., 70c; lb., \$2.25, postpaid.

**AUSTRALIAN BROWN**—This fine onion is extremely hardy, and yields an enormous crop both in bulk

## AMERICAN RED VARIETIES

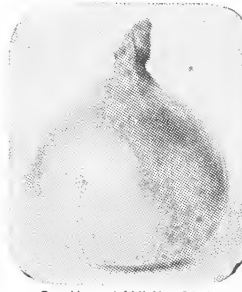
**SOUTHPORT RED GLOBE**—A very fine medium early or main crop variety. The skin is of deep red color, and the bulbs are ideally globe-shaped, with very smooth surface, very small neck and reach full size within 110 days. They are of strong flavor, very firm and of superior quality. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid.



Southport Red Globe

**LARGE RED WETHERS-FIELD**—The old standard sort. It grows to full size in about 95 days from seed, and is a good drought resister. The onions are large, flat, fine grained, and of a deep red color. A heavy yielder and good keeper. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid.

## AMERICAN WHITE VARIETIES



Southport White Globe

**WHITE SILVERSKIN OR PORTUGAL**—Bulb silvery white, flattened, and about 2 to 3 inches in diameter. It does not keep so well as some of the dark-skinned varieties, but is an excellent medium early sort. Pkt., 5c; ½ oz., 15c; oz., 25c; ¼ lb., 80c; lb., \$2.50, postpaid.

**SOUTHPORT WHITE GLOBE**—Bulb is silvery white, almost exactly spherical with a diameter of from 2¼ to 3¼ inches in every way, very firm, with a fine neck and keeps remarkably well. Leaves are dark green, slender and rather numerous. Pkt., 5c; ½ oz., 15c; oz., 25c; ¼ lb., 80c; lb., \$3.00, postpaid.

**NEW HARDY WINTER ONION**—This variety can be sown in the fall, and will live over winter in the open ground, unprotected and will continue growing in the spring, when it will make handsome bunch onions from two to three weeks earlier than any onion sets. When fully grown the onions somewhat resemble the White Bermuda in shape. Pkt., 10c; oz., 50c; ¼ lb., \$1.25; lb., \$3.50, postpaid.

## PARSLEY SEED

### "X-L" Hi-Germinating

Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

**PLANTING DIRECTIONS**—1 oz. to 150 ft. row; 5 lbs. to acre.

Parsley will do well in any garden soil but thrives best in a rich, mellow loam. The seed germinates slow and it is well to soak the seed in warm water before seeding. Sow either in boxes or under glass and transplant to open ground in rows 1 to 1½ feet apart and 4 to 6 inches between plants in the row. In fall take up a few plants and keep in boxes inside.

**MOSS OR TRIPLE CURLED**—In this variety the divisions of the leaves are deeply cut, and each of the small segments is more or less turned back on the upper side, giving the whole leaf a crisped or curled appearance which is attractive. The leaves are of dark green color, and are extra fine for garnishing and culinary purposes.

**HAMBURG TURNIP ROOTED**—In this kind of Parsley it is not the leaves, but the thick fleshy roots, which form the edible part of the plant. They are of a dingy white color, and resemble parsnips a great deal in size, and form. The flavor is similar to Celeriac, but not so delicate. Used mostly for flavoring soups.



## PARSNIPS

### "X-L" Hi-Germinating

Pkt., 5c; oz., 15c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.00, postpaid.

**PLANTING DIRECTIONS**—1 oz. to 100 ft. row; 3 lbs. to acre.

Requires a deep rich, sandy soil. Sow early in spring in rows 1½ to 2 feet apart and thin to 6 inches apart in the row. Cover seeds three-fourths inch. Seeds germinate slow. Parsnips are hardy and can be kept outside all winter.

**GUERNSEY**—Roots are comparatively short, ending somewhat abruptly with a small tap root; grows a cavity on the top or crown of the root. This is a good table variety.



Hollow Crowned Parsnips

**HOLLOW CROWNED OR SUGAR**—The roots, which are creamy white, grow 10 to 12 inches long, and are smooth, tender, sweet and of excellent flavor. This variety is very easily raised and is very productive.



### "X-L"-HiGerminating

Pkt., 10c; ½ lb., 30c; 1 lb., 45c; 5 lbs., \$1.75, postpaid. Not prepaid, 1 lb., 40c; 5 lbs., \$1.50.

### Early Smooth Varieties

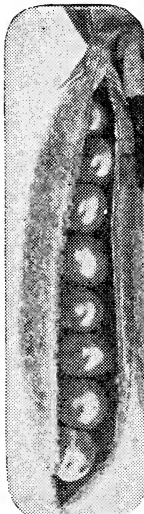
**ALASKA**—A remarkably early variety, and a good yielder. Foliage and pods are of light green. Pods 2½ inches long, round, straight and square ended, containing 6 light green peas. Uniform in maturing. Plant is 2½ feet high. We advise market gardeners to give this variety a trial.

### EARLY WRINKLED VARIETIES

**GRADUS**—One of the earliest wrinkled peas, very popular and is very hardy. Pods are large, medium green, 3¾ inches long, semi-round, straight, slightly curved and pointed, containing six to eight large, sweet peas, of excellent flavor. A first class table pea. Height 2½ feet.

**LAXTONIAN**—Ideal for the small home garden where space is at a premium. Laxtonian Peas grow 18 inches high, but the vines are exceedingly vigorous and produce pods averaging 4½ inches long, straight and pointed, containing 7 to 8 large peas of excellent flavor.

**AMERICAN WONDER**—Quite distinct from all other peas in habit of growth and appearance. The vines are only about 10 inches high, with dark green foliage and pods. Pods are straight, well filled to the ends, 2½ inches long. Seeds are green, and wrinkled. They ripen 50 days from germination.



Laxtonian

### "X-L" LITTLE MARVEL

—An early, dwarf variety of excellent qualities. Fine for both home garden and market gardener. Vines will average 15 inches in height, producing pods in abundance, which are about 3 inches long, of dark green color, and well filled to the ends with deep green peas of delicious flavor.

**LITTLE GEM**—A popular dwarf variety for family use on account of its exquisite buttery flavor. Foliage is dark green, pods 2½ inches long, nearly straight, well filled to the ends; early in maturing, luscious in flavor and highly recommended.



Little Marvel

## MAIN CROP VARIETIES

**IMPROVED TELEPHONE**—Very robust and vigorous growing plant, producing pods of very large size, averaging 4½ to 5 inches in length, pointed at the end, and well filled with large peas of most excellent flavor. Vines reach from 3½ to 4 feet in length.

**DWARF TELEPHONE**—This variety was obtained by crossing the Stratagem and the Telephone. The season is medium, ripens about a week earlier than the Stratagem. Pods are about four inches long, broad, straight, rounded at the point, dark green in color, and well filled. Pods often contain ten peas. Seed pale green, much wrinkled and shriveled.

## SUGAR PEAS

### DWARF GRAY SUGAR—

A dwarf plant growing about two feet high, producing an abundance of edible pods which are very sweet and tender. They are prepared for the table just as you and are served with white sauce.



would snap beans



### "X-L" Hi-Germinating

Prices except where otherwise noted.

Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.40, postpaid.

**RUBY KING**—A remarkably mild and pleasant pepper of bright red color, growing 6 to 7 inches long, by about 4 inches through. Fine for stuffing and can be eaten sliced with vinegar, like tomatoes. The fruit is tapering or cone-shaped.

**LARGE BELL or BULL NOSE**—A thick-set plant of light green color, branches short and stiff, seed vessels blunt and squared at ends, with four deep furrows and four corresponding ridges along the sides. Flesh is very thick with few seeds. Usually mildly flavored, but occasionally will produce fruits which are hot.

## Feed Everything You Grow

with this complete,  
balanced diet

**VIGORO**  
Complete plant food



**CALIFORNIA GIANT**—The latest and without

question the finest pepper yet introduced. It has appropriately been styled the "Salad King" but it is not in salad form alone that it excels, for there are other forms in which to prepare it. The seeds having been removed it may be stuffed, either with dressing as used in fowl or meat such as ground steak with onions or other seasoning. Sliced and fried

as egg plant, it is a delicious dish, or it may be eaten raw, it is so mild. "X-L" California Giant is the earliest, sweetest, and largest of all peppers. Pkt., 15c; 1/4 oz., 60c; 1/2 oz., \$1.00; 1 oz., \$1.90.

**LONG RED CAYENNE**—Fruit is a brilliant coral red, conical, and from two to three inches long and about one inch thick. Very hot to the taste.

**PIMENTO**—This new pepper is very mild with thick heavy flesh and has a delicate flavor. The shape is very good, being of medium length and smooth. It presents an attractive appearance when filled for the table. It is also delicious when used in salads or creamed like onions. Very prolific; a good shipper.



Pimento

## DISEASE-FREE POTATOES

**SEMESAN JR**  
DUPLICATE  
Makes Seed Corn Healthy

disinfectant which can be applied as an instantaneous dip. Semesan Bel instantaneous dip is sweeping the country and rapidly displacing the formaldehyde and bichloride treatments.

Semesan Bel, by controlling diseases which sap the vitality of seed potatoes, gives the seeds a chance to germinate quickly vigor from which grow increased yields of clean, healthy plants and tubers. Prices: 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$37.50; 50 lbs., \$72.50; 100 lbs., \$140.00. Add postage.

Send for FREE Potato Booklet

## POTATOES

Due to the short crop of potatoes grown in Montana this past season, our supply of select stock is very limited. However, we shall be in position to furnish the following varieties: Early Ohio, New Early Victor, Bliss Triumph and Nettle Gems. If interested write for opening prices at planting time.

## RHUBARB OR PIEPLANT



**CULTURE**—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never be allowed to exhaust itself by running to seed.

**VICTORIA or MAMMOTH**—Very large; the finest cooking variety. Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 55c; 1/2 lb., 85c; 1 lb., \$1.50, postpaid.

## PUMPKINS

### "X-L" Hi-Germinating

**CULTURE**—The common practice is to drop two or three seeds in every second or third hill in the cornfield, but if cultivated on a large scale the seed should be sown in hills eight feet apart each way, four plants to each hill, and otherwise treated in the same manner as melons or cucumbers.



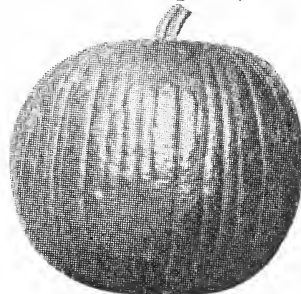
Small Sugar

**SMALL SUGAR**—Most desirable variety for making pies. Smaller than the field pumpkin, round, flattened, fine grained, sweet and very prolific. Matures in 65 days and is an excellent keeper. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00, postpaid. Not postpaid, lb., 90c; 5 lbs., \$4.25.

**CONNECTICUT FIELD**—The well-known old Connecticut variety. Skin is of orange color, with deep orange flesh. In shape, is generally grown for feeding dairy stock. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 85c, postpaid. Not postpaid, lb., 80c; 5 lbs., \$3.75.

**KENTUCKY FIELD**—A large variety, hardy, late and very prolific. Fruit is rounded, flattened, with sweet yellow flesh. Has thick meat of very fine quality and is excellent for canning. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 70c, postpaid. Not postpaid, lb., 60c; 5 lbs., \$2.75.

**KING OF MAMMOTH or GENUINE MAMMOTH**—The flesh and skin are of a bright golden yellow. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety has been grown to weigh over 200 pounds. Pkt., 5c; oz., 15c; 1/4 lb., 45c; lb., \$1.40, postpaid. Not postpaid, lb., \$1.30; 5 lbs., \$6.25.



King of Mammoth

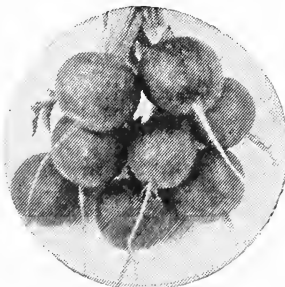
## RADISHES

### "X-L" Hi-Germinating

Price of all radishes except where especially priced.

Pkt., 5c; 1 oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; 1 lb., \$1.00, postpaid.

**CULTURE**—To be tender and crisp, radishes must be grown quickly—and quick growth requires rich soil and plenty of moisture. Commencing with the first mild spell of weather in the Spring, sow at intervals of 10 days in a light rich soil that has been deeply dug. They can also be grown as a catch crop between the rows of beets, lettuce, onions, etc. Radishes can be forced in the hotbeds, but they must have plenty of ventilation and moisture.

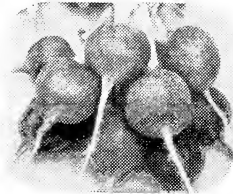


Saxa Radish

## EARLY VARIETIES

**SAXA RADISH**—The Earliest Radish Grown. We have found this new Radish to be earlier than any of the other so called earliest sorts. The best extra early variety for forcing, for growing in the open ground it has no superior. From the time of seed sowing to the table in 16 to 18 days, and under ideal conditions are fit to pull in 15 days. It is round, bright scarlet in color and has a very small top and taproot. Flesh pure white, crisp, brittle, and mild and juicy. The Saxa is one of the slowest to shoot to seed. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**SPARKLER RADISH** (The Leader for Market)—Color is scarlet and white, extremely quick to mature, being ready for the table in 20 days from planting. Valuable for forcing under glass, as well as for the open. Skin very smooth, and its color gives it an appetizing appearance. Selected stock seed.

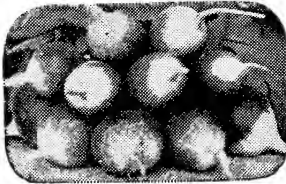


Crimson Giant

**CRIMSON GIANT**—A variety extraordinary in that while growing to an unusually large size, it is always tender, crisp and of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy even when twice their size in diameter.

### EARLY SCARLET GLOBE

**WHITE TIPPED**—One of the best early radishes for the home garden and a great favorite in large markets for early planting outdoors. The roots are nearly round, color is very bright, deep rose carmine scarlet with a distinctly white tip.



White Tip

## OLIVE SHAPED VARIETIES

**FRENCH BREAKFAST**—A market garden radish. Root ovoid, slightly elongated, usually olive shaped, cylindrical for a good part of its length, and rounded at both ends. Skin is bright pink on the upper part, and white on the lower part. It is very productive early, and the flesh is exceedingly crisp and tender.

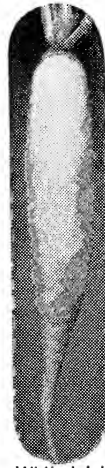
## LONG VARIETIES

**CINCINNATI MARKET** (Gold Seal Quality)—An improvement of the Long Scarlet variety and one that has met with the approval of all the greenhouse and hotbed gardeners. The seed that we offer of this variety is especially adapted to this Western country and has been given a thorough trial by us. It produces a long, straight radish of beautiful color, with short tops and for this reason can be planted so thick in the bed that the radishes touch one another. It has also won favor among the growers of outdoor radishes and is being planted as the main crop radish for the summer market. Often grows 7 to 9 inches in length.

### HAVE YOU TRIED MULCH PAPER?

If not you do not know how easy it is to raise delicious vegetables and at the same time they mature much earlier. No weeding or hoeing. See page 53 for complete description and price.

Do not forget to order other insecticides with your freight shipment of field seeds as insecticides cannot be shipped by parcel post. By including insecticides with your field seed order you will save enough in the transportation cost to pay for one-half of the original cost.



White Icicle

**WHITE ICICLE**—An entirely distinct long, white variety. It is ready for use fully as early as Long Scarlet Top, with less foliage rendering it most desirable for forcing. In the open ground the roots retain their brittle crispness until they are as large as the Long Bright Scarlet. Superior to any of the red varieties. Roots about six inches in length, and ¼ inch in diameter.

## SUMMER VARIETIES

**WHITE STRASBURG**—A large medium long sort, with heavy shoulders tapering gradually to base. Flesh and skin pure white. Solid, fine quality. Resists drought.

## WINTER VARIETIES

Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use the roots should be pulled and packed in damp sand and stored in a cool cellar.

**CHINESE ROSE**—Half-long, flesh pink, solid.  
**LONG BLACK SPANISH**—Roots black. Round  
**Black Spanish**—Globe shaped.

## SALSIFY OR OYSTER PLANT

One ounce will sow 150 feet. A most delicious vegetable. It is used stewed, boiled, or fried, and sometimes as a salad. When cooked it has an oyster flavor. Sow seed from April to May in drills 18 inches apart. Cultivate the same as for Carrots or Parsnips.



Salsify or Oyster Plant

**MAMMOTH SANDWICH ISLAND**—True, large and superior; very fine flavor. Pkt., 5c; oz., 25c; ¼ lb., 80c; 1 lb., \$2.75, postpaid.

## SPINACH

### "X-L" Hi-Germinating

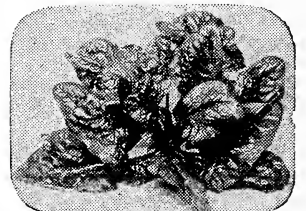
Prices of all varieties except where especially priced. Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 75c, postpaid.

One ounce will sow 200 feet of drill, 10 to 20 lbs. an acre.

**CULTURE**—This is best developed and most tender and succulent when grown in very rich soil. For summer use sow early in spring in drills 15 inches apart, and make successive sowing every two weeks.

**KING OF DENMARK**—The best long-season Spinach, remaining two weeks longer than other others before bolting to seed. Plant vigorous and spreading; leaves large, rounded, crumpled and blistered, deep green in color.

**LONG STANDING**—An improved, round seeded strain of excellent merit, having all the good qualities of other sorts and continuing in condition for use much longer. The leaves are smooth and very dark, rich green. Very popular with market gardeners.



Long Standing



**BLOOMSDALE or SAVOY LEAVED**—Of upright growth; leaves curled and crimped, thick and fleshy. Keeps well after cutting. Suitable for fall sowing.

**NEW ZEALAND**—Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry, arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand, in May, or earlier in a hotbed and transplanted, and the plants will continue to yield a supply of good leaves of excellent quality during the entire Summer, requiring scarcely any attention. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 90c.



### "X-L" Hi-Germinating

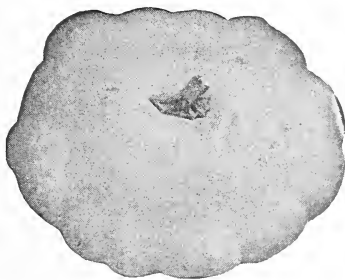
Prices of all varieties except where especially printed. Pkt., 5c; oz., 15c; ½ lb., 35c; 1 lb., \$1.35, postpaid.

**CULTURE**—Plant when danger of frost is past and the ground has become warm. For bush varieties the hills may be five feet apart but allow six to eight feet for trailing varieties. Plant 6 or 8 seeds to the hill and thin to three plants when they begin to vine.

## BUSH OR SUMMER VARIETIES

**MAMMOTH WHITE BUSH**—An early, round, flat squash; color clear white, handsomely scalloped. Called Patty Pan in the South. Largely planted in every section of the country. One of the very best of the early varieties.

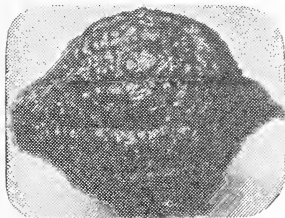
**MAMMOTH SUMMER CROOKNECK**—A well-known and standard variety. Grows from 18 inches to two feet in length. The shell is hard and warted and of an attractive bright yellow color. The thick flesh is of good quality.



White Bush

## WINTER SQUASHES

**GREEN HUBBARD**—A favorite winter squash. Shell dark green and extremely hard. Flesh rich orange; dry and sweet. Splendid for cooking or pies.



Hubbard

color; flesh golden-yellow and of very best quality; a winter sort, maturing with Hubbard.

**GOLDEN HUBBARD**—This is a very distinct sort, of the shape and general character of the Hubbard, but a little smaller; of rich orange red color, instead of the dark olive green.

**SIBLEY or PIKE'S PEAK**—Large oval fruits tapering at the blossom end; skin smooth and dark olive-green in color; flesh golden-yellow and of very best quality; a winter sort, maturing with Hubbard.

**DES MOINES or TABLE QUEEN**—A small, very productive variety of many desirable qualities. It's size is particularly desirable as one squash makes a meal for a hungry person. The thin shell is ribbed and a very dark green in color. The rich golden flesh is very thick and the seed cavity small. A good keeper, the quality is excellent. Pkt., 5c; oz., 20c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.60.

## TOMATOES

**PLANTING DIRECTIONS**—1 oz., for about 2,000 plants.

Sow inside in boxes or in hotbeds where the temperature is about 65 degrees. Transplant when 3 inches high to 3x3 inches each way. Transplanting will make an abundance of fibrous roots and also stocky plants. Plant outdoors when all danger of frost is past in rows 4 ft. apart and 3 ft. apart in row. Sunny exposure and fairly rich soil is best. Trim off part of foliage to expose tomatoes to the sun.

**JOHN BAER**—This variety will produce more bushels of large, smooth, handsome, ripe tomatoes per acre than almost any other variety. Fruit is uniform, of large size, perfectly smooth and regular, of bright scarlet color. Free from cracks and not subject to black rot. One of the best second early crop tomatoes for canning. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

**CHALK'S EARLY JEWEL**—We consider this one of the very best early tomatoes yet introduced. Vine vigorous and very productive. Fruit deep scarlet-red. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.10.

**EARLIANA**—Ripens earlier than any other variety. Solid, very meaty and of exceptionally fine quality. Profitable for market. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.10.

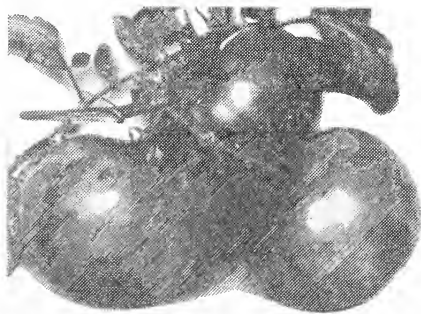
**THE NEW STONE**—This is a new improved wilt-resisting strain. Produces a nice, large, very smooth uniform red tomato. A vigorous grower and very prolific. Pkt., 5c; ½ oz., 20c; oz., 30c; ¼ lb., \$1.00.

**BONNY BEST**—Vines strong and vigorous, fruit deep scarlet, ripening to stem. Flesh firm. A productive and very desirable early and main crop variety. The most popular forcing variety. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.30.

**GOLDEN QUEEN**—Fruit large and smooth; color a beautiful golden yellow, sometimes with a slight blush of red, as smooth and well shaped as the best of the red varieties and of superior flavor. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.35.

## GROUND CHERRY

Small yellow fruit inclosed in a husk. Of peculiar flavor and used for preserves. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.35.



Yellow Pear

**YELLOW PEAR**—Favorites with all. Pear-shaped and a deep yellow color. Highly valued for preserves or pickles. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.35.

**PONDEROSA**—This is a very large, solid tomato. Color pink, changing to purple. On account of its large size it is suitable to grow for exhibition purposes. It is of good quality, however, and very largely in demand for home gardens. Pkt., 5c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.75.

## TURNIPS

### "X-L" Hi-Germinating

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid. Not postpaid, lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

**CULTURE**—For the early crop, sow the seed as soon as the ground can be prepared; for the late crop, sow in the latter part of July or early in August. The rows may be 12 to 18 inches apart or 26 to 30 if a horse cultivator is to be employed. The tendency is to sow the seed too thickly. If one good seed is dropped to every inch of furrow the stand should be satisfactory. For the late crop the seed may be sown broadcast in well-prepared soil and then raked in lightly. Before storing, the tops should be removed.

**EXTRA EARLY PURPLE TOP MILAN**—The earliest in cultivation. The bulb is very flat, medium size, quite smooth, with a bright purple top; leaves few, short, and light of color. The pure white flesh is of the choicest quality, hard, solid, and fine grained. It is excellent keeper. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

**PURPLE TOP STRAP-LEAVED**—The standard for this part of the country. The root is small or medium-sized, very flat, quite smooth, pure white on the underground part, and bright violet-red on the upper part. The leaves which are entire, rather erect, and very short, are few for the size of the root. It is a variety which can be sown for early or late planting and is of good flavor.

**EARLY SNOWBALL**—Root tolerably flattened or globular, of a pure white color. It is of medium size, of excellent quality, and in our markets it is much admired.

**EARLY WHITE EGG**—A quick-growing, egg-shaped variety. Its pure white skin and quick growth make it particularly suitable for market purposes. The flesh is very sweet, firm and mild, and never having the rank strong taste of some varieties.

**PURPLE TOP WHITE GLOBE**—An old favorite. Root large, quite round, white underground, and purple on the upper part for about one-half of the length of the root; leaves very broad, little divided dark green, tinged with brown during winter. Of good quality for the table, yields heavy crops, and may be recommended also for cattle-feeding purposes.

## RUTABAGAS OR SWEDISH TURNIPS

**CULTURE**—Same as for the turnip, except that the rutabaga requires more room and a longer period for its growth. The roots are quite hardy and will withstand considerable frost. It is used like the turnip, and also for stock feed. Two pounds of seed are required for one acre.

**PURPLE TOP YELLOW RUTABAGA**—The best variety of the Swedish turnip. It is hardy and productive, flesh is yellow, of solid texture, sweet and well flavored. Shaped slightly oblong, terminates abruptly with no side or bottom roots, color deep purple above the ground and bright yellow beneath. Leaves are small, light green, with little or no neck. The most perfect in form, the richest in flavor, and the best in every respect. Price same as Turnips.

## VEGETABLE PLANTS AND ROOTS

Our growers of vegetable plants are experienced and experts in their line. We have built up a wonderful large and growing business on the quality of plants we send out. A trial order will convince you.

**SHIPPING DATE**—All plants will be shipped when all danger of frost is over unless otherwise specified in order. If ordered with seeds or poultry supplies, balance of order will be filled and acknowledgment of plant order and approximate date of shipping will be packed in seed or poultry shipment.

## TOMATOES

**JOHN BAER**—One of the earliest varieties for Montana, of splendid color and flavor. Large fruit and a heavy yielder.

**EARLIANA**—As the name implies it is one of the earliest. Fruit very large and firm. A heavy yielder.

**BONNY BEST**—Vines strong and vigorous, fruit deep scarlet, ripening to stem. Flesh firm. A productive and very desirable early and main crop variety.

**PRICES ON ABOVE VARIETIES**  
Dozen, 3 inch pot grown .....\$1.00; postpaid \$1.35  
Dozen, 4 inch pot grown ..... 1.50; postpaid 2.00  
Dozen from boxes, transplanted .50; postpaid .65  
100 from boxes transplanted... 3.50; postpaid 3.75

## CUCUMBERS

**IMPROVED WHITE SPINE**—From 2½ inch pots each 10c; postpaid 15c; per doz., 75c; postpaid, \$1.00.

## CAULIFLOWER

**EARLY SNOWBALL**—Per doz., 25c, prepaid, 35c; per 50, 75c, prepaid, 95c; per 100, \$1.25, prepaid, \$1.50.

## PEPPERS

**BULLNOSE**—Per doz., 50c, postpaid, 75c; per 100, \$3.50, postpaid, \$3.75.

## PARSLEY

**NOSSCURLD**—2 inch pots per dozen, 50c, postpaid, 75c.

## CABBAGE

We have the following varieties: Red Rock, Jersey Wakefield, Copenhagen Market, Danish Ball Head, Late Flat Dutch. Prices, per doz., 15c, postpaid, 25c; per 100, \$1.00, postpaid, \$1.40; per 1,000, \$8.00.

**GOLDEN ACRE CABBAGE**—This is the new variety that everyone who has tried it proclaims the best. See description in this catalog. Per doz., 20c, postpaid, 30c; per 100, \$1.50, postpaid, \$1.90; per 1,000, \$10.00.

## CELERY

**GOLDEN PLUME**—Golden Self Blanching (Imported Strain). Per doz., 25c, postpaid, 40c; per 100, \$1.50, postpaid, \$1.80.

**NOTICE**—Please write for prices on vegetable plants in large quantities. Our facilities for filling large orders are unlimited and the quality and price will please you.

## RHUBARB

Strong 1 year old roots. Each, 25c; per doz., \$2.50; 2 year old, each 35c; per doz., \$3.00.

## ASPARAGUS

**WASHINGTON RUST-PROOF**—2 year old field grown roots, doz., 60c; 25, 85c; 100, \$2.75, postpaid.

## HORSERADISH

Large clumps, each 50c.

## BERMUDA ONION PLANTS

See Page 39 for description and prices.

for Better Flowers

feed them this complete,  
balanced diet

**VIGORO**  
Complete plant food





**Grows  
beautiful  
lawns and  
flowers!**



Success for all with Vigoro! Users find that this ideal plantfood gives a quick vigorous start—more velvety green grass, better flowers, crisp succulent vegetables.

Vigoro is *odorless!* So clean you sow by hand like grass seed! Plants get a balanced ration throughout the season.

Enough concentrated

nourishment in a 100 lb. sack for lawn or garden 50 x 50 to 50 x 100 feet. Only 2 to 4 lbs. per 100 square feet, and not at all costly!

Full directions for applying Vigoro in every bag. In paper-lined bags of 100, 50, 25 lbs., and 5 lb. packages. Order Vigoro today for all the things you grow.

A Swift & Company Product

Endorsed by  
Leading  
Landscape  
Gardeners &  
Nurserymen

**VIGORO**  
Makes better lawns,  
gardens, flowers, trees  
and shrubs



12 oz. pkt., 10c; 5 lb., 60c; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$6.00.

## PREPARED SHEEP FERTILIZER

One of the Best Known of All Fertilizers. Ideal for Plants, Vegetable Gardens and Lawns.

Due to a special process in which this is pulverized and then heated to a temperature of 300 degrees, we can guarantee this to be odorless and absolutely free of weeds. Place a small amount on the lawn and then wet it. The action of the water immediately dissolves the fertilizer and it goes to the root where the most good is accomplished. Wonderful for house plants. Simply place a teaspoonful to each pot and then water. This fertilizer insures quick and steady growth, with better coloring and luxuriant foliage. 25 lb., bag, 75c; 50 lb. bag, \$1.00; 100 lb. bag, \$1.75. Can also be used as a liquid fertilizer, in water. For general use apply 50 lbs. to every 100 square feet.

**STIM-U-PLANT**

**PLANT STIMULANT TABLET**

A highly concentrated, immediately available form of plant food in tablet form. No danger of burning plants by over-feeding as full directions furnished give number of tablets for each kind of plant or flower. The most modern, efficient and scientific method of fertilizing growing plants that

## PAINT YOUR LAWN GREEN

### USE MONTANA FERTILIZER

Easy to apply, economical, odorless, quick acting, no danger of weeds. Montana Fertilizer is a preparation of steamed bone meal and dried blood, high in ammonia, phosphoric acid and potash. Complete directions furnished with each package. Can be used on the lawn, flowers, vegetable garden and all house plants. Per 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00; ton lots, \$3.60 per 100.

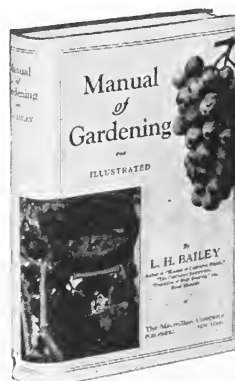
## AMMONIUM SULPHATE

A real fertilizer for Farms, Gardens, Lawns, Flowers and Shrubs. Easy to apply, lasting, odorless, economical. 100 lbs. of Ammonium Sulphate is equal in nitrogen content to 4000 lbs. of good stable manure. Can be applied dissolved in water or broadcast. Will not burn. Permeates the ground quickly and the results of its use, on many crops, can be perceived in a few days. Complete directions for application of same furnished with each package. 10 lbs., \$1.00; 100 lbs., \$8.50. Add postage.

we know of. 30 tablets 25c; 100 tablets 75c, postpaid, 80c; 1000 tablets, \$3.50, postpaid, \$3.60.

## BONE MEAL

A well known fertilizer for all purposes, safe and effective. One to 25 lbs., 7c per lb., 100 lbs., \$5.00. Add postage.



**MANUAL OF GARDENING**, by L. H. Bailey. You can depend upon this book to supply you with complete and practical information on planting and landscaping your home grounds. Tells how to make the most of natural features; how to drain, cultivate, and fertilize the soil; how to sow, propagate, transplant, prune, and graft the different classes of fruits, vegetables, and flowers. Gives lists of varieties suited for different purposes. 350 illustrations, 539 pages. \$3.00.

# Inoculate

## ALL LEGUMES

Alfalfa, All Clovers, Soy Beans, Cow Peas, Vetch, Peas, Beans,  
Peanuts with

All Legume  
Germs Are  
Perishable

To Protect You  
NITRAGIN Cans  
Stamped With  
Expiration Date



Legume Germs  
Die Rapidly  
When Dried

Authorities  
Recommend  
Inoculating  
With Water

### THE ORIGINAL LEGUME INOCULATOR

**Guaranteed Fresh Each Year—Leads in High Germ Count**

For profitable results, Agricultural Colleges advise inoculation for all legume seed, because it pays well in producing larger quality yields. NITRAGIN inoculated legumes draw their nitrogen from the air—not the soil—with billions of fresh, efficient nitrogen-gathering germs. It's fresh each year—it's DATED, and leads in High Legume Germ Count. Quality inoculation is the cheapest legume crop insurance known.

### NITRAGIN PRICES

Alfalfa, All Clovers	Peas, Vetch, Beans, Austrian Winter Peas	Soy Beans and Cow Peas
Size Price	Size Price	Size Price
1/4 bu.....\$ .40	1 bu.....\$ .40	1 bu.....\$ .40
1/2 bu..... .60	1/2 bu..... .60	2 bu..... .70
1 bu..... 1.00	1 bu..... .60	5 bu..... 1.50
5 bu..... 4.75	*1 1/2 bu..... .90	10 bu..... 2.50
	3 1/2 bu..... 1.80	
	5 bu..... 2.50	
When ordering always specify kind of seed	*Also called "100 lb. size."	When ordering always specify kind of seed



### Garden Nitratin—Garden Size— Peas, Beans, Sweet Peas

Inoculates from 1 ounce to 8 lbs. seed. Price \$25

**IMPORTANT:** When ordering NITRAGIN, always be sure to state kind of legume seed you wish to inoculate.

**Nitratin Has Served the American Farmer Since 1898**

### Mixing Nitratin with Seed

Legume Germs die rapidly when dried. NITRAGIN, containing between 30%—40% moisture, will readily stick to the seed without adding water, and give inoculation. However, for best results, the preferred practice, recommended by The Nitratin Company and Agricultural Authorities is to use water when mixing legume culture with seed.

## SPRAYERS AND ACCESSORIES

### Compressed Air Sprayer No. 10

This type of sprayer is the most popular for all general work. It is adapted for general spraying, whitewashing, disinfecting, or applying Paris Green.

It is made of heavy galvanized iron, 20 inches high and holds approximately four gallons.

Pump is made of seamless brass tubing with automatic bronze check valve. Will last a lifetime, and is equipped with extra spraying discs, long extension tubing and operates perfectly under all pressure.

No. 10-G Weight 12 lbs. Price \$6.00

### Compressed Air Sprayer No. 20

The No. 20 is the same in principle, quality and workmanship as our No. 10, somewhat modified in design to meet the demand for a lower priced sprayer. Capacity 3 3/4 gallons. Every sprayer is tested 100% beyond operating pressure to insure perfect safety to operators. Complete with automatic nozzle and equipped with two extra spraying discs.

No. 20 Weight 10 lbs. Price \$4.75



### No. 225 Utility Sprayer

This Mason jar sprayer is a favorite with the house wife. Any Mason jar may be used and a change from one solution to another can be affected by simply changing jars.

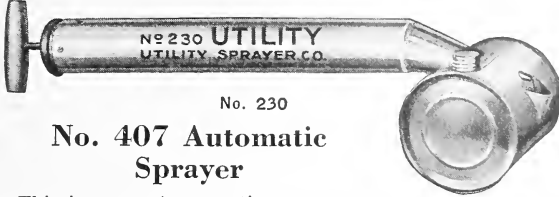
No. 225 Weight 3 lbs. Price \$0.65

## Sprayer and Accessories--Cont.

### No. 230 Diamond Special Sprayer

This sprayer may be used for general spraying in and around the house, barn, garden, etc. Pump passes through the tank and is securely soldered, making a very rigid construction.

No. 230 Weight 2 lbs. Price \$0.50

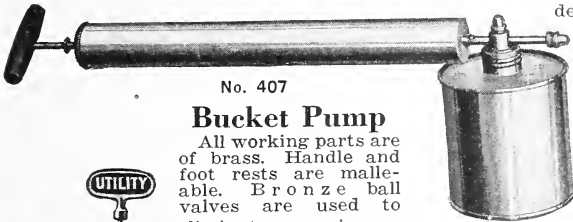


No. 230

### No. 407 Automatic Sprayer

This is a new type continuous sprayer with many advantages over all previous types. Nozzle can be adjusted to throw either a fine mist spray or straight stream. Equipped with extra nozzle disc for spraying upward. Can be used to advantage in spraying the underside of leaves or plant foliage, and for spraying the underside of hen roosts. Capacity one quart.

No. 407 Weight 2 lbs. Price \$1.00  
No. 407B—Solid Brass 2 lbs. 1.75



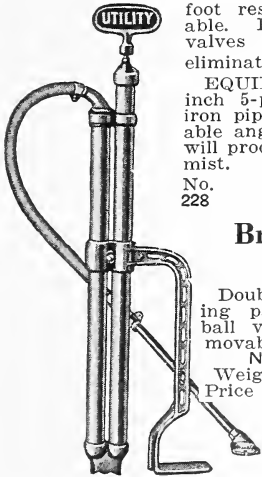
No. 407

### Bucket Pump

All working parts are of brass. Handle and foot rests are malleable. Bronze ball valves are used to eliminate corrosion.

EQUIPMENT: 3 feet of 3/4-inch 5-ply spray hose, 12-inch iron pipe extension and adjustable angle service nozzle which will produce solid stream to fine mist.

No. 228 Weight 3 lbs. Price \$3.95



### Brass Bucket Sprayer

Double acting, all working parts brass. Brass ball valve and seat removable.

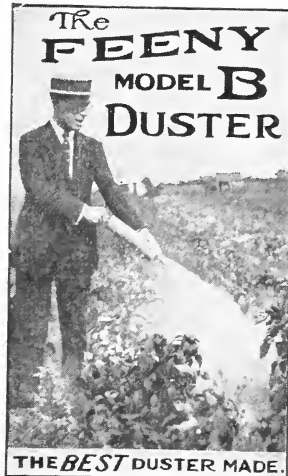
No. 112 Weight, 5 lbs. Price .....\$2.50

### Save Your Garden With a Feeny Duster

The use of a MODEL B DUSTER is nothing like the old, dirty, sloppy job of trying to kill bugs or insects in your garden with a liquid sprayer. It does not have to be cleaned after using as with a liquid sprayer. The ideal duster for potato bugs.

The dust cloud from a Model B covers every surface of the thing that is to be dusted. Why waste time and material with ineffective sprayers and make-shift dusters.

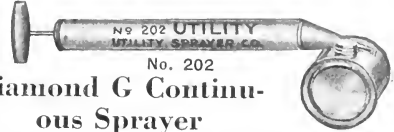
Price \$1.25; postpaid, \$1.35.



### No. 202 Utility Sprayer

This type is for general insecticides, disinfecting, and spraying. Will handle all solutions in a very satisfactory manner. Capacity about 3/4 of a pint.

No. 202 Weight 1 lb. Price \$0.30

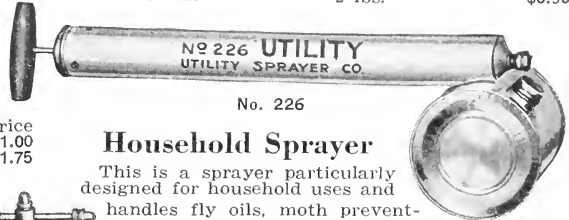


No. 202

### Diamond G Continuous Sprayer

This sprayer produces a continuous spray and will handle all household and agricultural insecticides, disinfectants, etc. Capacity one quart. May be easily cleaned.

No. 226 Weight 2 lbs. Price \$0.90



No. 226

### Household Sprayer

This is a sprayer particularly designed for household uses and handles fly oils, moth prevent-

ives and all other insecticides and disinfectants very well. Can be detached for convenient filling. Capacity about six ounces.

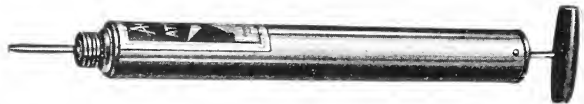
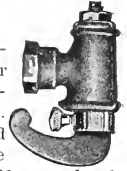
No. F-2 Weight 1/2 lb. Price \$0.15

### Bordeaux Nozzle

Bordeaux Nozzle for spraying, whitewashing or cold water painting. Adjustable to regulate the quantity of liquid used. Throws a wide flat spray, and can be graduated from a fine

mist to a solid stream, or shut off completely. Made entirely of brass. Threaded for 1/4 inch standard pipe.

No. 329—Price each, 65c.



### Diamond G Jr. Duster

This duster will use all insect powders. A handy size for use around the home for exterminating roaches, ants, mosquitoes, flies, etc. Heavy tinned 2-inch extension flattened at end for getting in cracks, etc. Each, 60c, postpaid.

### Brass Extension Tube



Length 3 ft. Fits our No. 10 Pump. Made of brass, and will not rust or corrode. Useful in spraying ceilings. Each, 75c.

## Repair Parts and Accessories for Sprayers

No. 126—Brass Whirl Disc for nozzle used on DIAMOND No. 125 KNAPSACK and No. 20 COMPRESSED SPRAYER. Price 10c; postpaid, 12c.

Brass Strainer for nozzle for same sprayers. Price 10c; postpaid, 12c.

No. 111—Nozzle Discs for above sprayer in Fine, Medium and Course. Each, 5c; postpaid, 7c.

No. 114—Nozzle Gaskets for above sprayers. Price 5c; postpaid 7c.

No. K112—Plunger Leathers for above sprayers. Price 10c; postpaid, 12c.

No. K113—Pump Gaskets for above sprayers. Price 10c; postpaid, 12c.

No. 65—Automatic Angle Nozzle. Will fit on No. 20 and DIAMOND KNAPSACK SPRAYER. Fine for overhead work. Price \$1.65; postpaid, \$1.75.

No. 30-80—Automatic Angle Nozzle, fitted with automatic shut-off. Will fit on No. 20 and DIAMOND KNAPSACK. Very handy as nozzle will shut off alone when not in use. Price \$1.65; postpaid, \$1.75.

No. 80—Angle Service Nozzle, 1/4 inch pipe thread, complete. Price 75c; postpaid, 85c.

Write for Free Spraying Chart and complete line of insecticides. Let us help you protect your garden, flowers and trees.

## INSECTICIDES AND FUNGICIDES

WRITE FOR FREE SPRAYING GUIDE.

### Acme All Round Spray

SWEEPS YOUR GARDEN CLEAN

One shot of All Round Spray gives triple service in protection of your flowers, shrubs, vines, vegetables and trees. Three leading remedies known by horticultural experts are combined in this one tightly sealed package to make it the final answer in spraying by the amateur gardener. A spraying guide with each package makes its use sure, safe and effective.



1/4 lb. tins ea. 45c 1 lb. tins ea. 95c

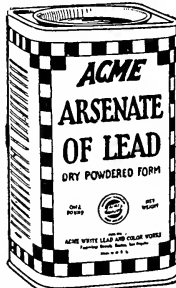
ONE SPRAY SAVES ALL



### Acme Paris Green

Contains 55 per cent arsenious oxide, it will give quickest control where extreme measures are necessary. For use on potatoes, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.

Prices: 1/4 lb., 15c; 1/2 lb., 25c; 1 lb., 45c; 5 lbs., \$2.10.



### Arsenate of Lead

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used

as dust or spray. Prices: 1/2 lb., 30c; 1 lb., 50c; 4 lbs., \$1.40.

### Acme Two-Way Spray

A balanced insecticide and fungicide containing 14 per cent arsenate of lead and 83 per cent Bordeaux Mixture. Two results with one application. Use wet or dry on apple, sour cherry, currant and gooseberry, grape, pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables. Prices: 1/2 lb., 30c; 1 lb., 50c; 4 lbs., \$1.40.



### Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Prices: 1 lb., 45c; 4 lbs., \$1.25.



### Acme London Purple

A favorite insecticide for 50 years. Now stronger and better than ever. London Purple is one of the lightest and fluffiest powdered insecticides on the market, assuring complete coverage and greatest adhesion to foliage. For use on potatoes, cotton, tobacco, sugar beets and many other shrubs and vegetables affected by leaf chewing insects. Price: 1/4 lb., 40c; 1 lb., 90c.



### Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oil in making oil emulsions to reduce the surface tension. Price: 1 lb., 55c, postpaid.



Use **EVER GREEN** to PROTECT YOUR GARDEN  
NON-POISONOUS INSECTICIDE



The new effective insecticide. Kills every insect that the home gardener is likely to encounter. Absolutely NON-POISONOUS to humans, animals and birds. No danger from eating fruits and vegetables that have been sprayed with EVER-GREEN. Easily mixed. Simply mix with soapy water and spray on foliage. Has a pleasant odor suggestive of fresh cedar. Economical to use. Price: per bottle, 40c, postpaid. Makes nine gallons of spray.

## NEW WAY TO KILL GARDEN BUGS

PROTECT your flowers and vegetables this new way. Surprisingly easy! Simply sprinkle with a new kind of non-poisonous powder called **PLANTGARD**. Not only are bugs, worms and insects *killed*, but this almost magical powder also fertilizes the ground. No wonder flowers grow larger and brighter colored! Vegetables mature quicker and are more tasty. Yet it costs only a few cents to protect an entire garden bed. Ask for Plantgard today.

**Plantgard**  
FOR GARDEN PROTECTION



Postpaid prices: 1 lb., 40c; 2 lbs., 70c.

## Quickly Kills Garden Pests

Science Provides New, Safe Method That Does the Work Without Fuss



Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, Etc., Are Exterminated

Snarol is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. These pests eat the meal, and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling, and also is non-injurious to vegetation when used according to simple directions.

These features distinguish it from ordinary controls, and make Snarol popular with professional gardeners and nurserymen.

Prices: 1-pound packages, 45c; 3-pound packages, 95c.



**Snarol**  
Quickly Kills Garden Pests

## Kills Ants in the Nest

New Methods "Gets" Them at Their Source—Safe, Permanent, Effective.

The Antrol system is adapted to any size house or garden, and quickly destroys all species of sweet-eating ants. It is composed of small glass containers partially filled with special syrup and placed about the outside edges of the house or along ant "trails" in the garden. The ants smell the syrup, eat it, and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every fifteen feet around the outside of the house or ant "trails" in the garden. Once installed, permanent, effective, and safe protection is insured from these annoying pests. Prices: Antrol sets containing four containers and one 4-ounce bottle of syrup, 95c; Antrol extra containers, each, 15c; Antrol syrup, 4-ounce bottles, 45c; pints, 95c.

**Antrol**  
Kills Ants in the Nest



## Protect Your Grain Profits Increase Your Crop Yields with **CERESAN**

Why lose part of your grain crops through smuts and other seed-borne diseases? Prevent these diseases and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Use 2 oz. per bushel of seed wheat, rye, sorghums or millets; 3 oz. for oats and barley.

The only seed treatment you need for  
**Wheat  
Oats  
Barley  
Rye  
Sorghums  
Millet**

1 lb. ....\$ .75  
5 lb. .... 3.00  
25 lb. ....12.50



Ceresan increased this oats yield 19.1 bushels per acre and gave perfect smut control.



## SEMESAN BEL

For Seed Potatoes

Potato diseases cause a loss equivalent to the yield of one acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. Price: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25.

## More and Better Potatoes By the use of Corrosive Sublimate

Disinfect your **SEED POTATOES** and prevent Common Scab, Black Scurf and Blackleg. Full directions for mixing and using the solution furnished with each package. Per 1-lb. box, \$3.25, postpaid.

## FACTS

Montana's flax crop brought a total of \$2,983,000 to the farmers, state-federal reports show for last year.

## CYANO GAS

### Will Kill All These Pests



Ants,  
Sparrows,  
Ground Hogs,  
Prairie Dogs,  
Rats, Mice,  
Bedbugs,  
Wireworms,  
Pocket  
Gophers,  
Cloth Moths,  
Cockroaches.

When exposed to the air it gives off a gas that is deadly to rodents and insect pests and kills them almost imme-

diately. The pests don't have to eat Cyanogas—or even touch it. It gets them wherever they are. None can escape it. Easy, quick and thorough. Per 5-lb. can, \$1.50. Add postage.

## Corona Tree Wound Dressing

If you value your trees and wish them to develop and continue to grow into beautiful living ornaments, by all means prune them and after pruning use a prepared tree wound dressing. If you want to compare Corona Tree Wound Dressing with other paints or dressings, do so by removing elliptical strips of bark one and one-half inches long by three-quarters of an inch wide from a three-inch apple limb. Examine it three weeks later and notice the difference. Full directions furnished with each can. Prepaid, 85c per quart can.



## Weedex

The Scientific Chemical Weed Killer.

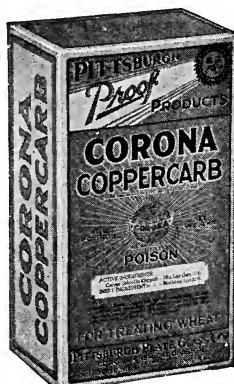
Kills weeds with their roots and seeds. Saves you health, time, energy and money. One gallon of concentrated Weedex will make 50 gallons of treating liquid which will be sufficient to effectively cover 150 square yards of paths or roadways. Full directions furnished with each can. Per quart can, 75c, postpaid.

## WONDER WEED KILLER

A new preparation imported from Denmark that is guaranteed to DESTROY DANDELION, THISTLE, MUSTARD and all other oil-holding seed weeds. Easy to apply, with no danger to the lawn. Simply scatter the powder over the lawn early in the morning. One application is sufficient when

weeds are young and tender. When they have a good growth two applications may be needed. Per lb., 50c, postpaid; per 5 lbs., \$2.10, postpaid.

## Corona Coppercarb



Kill stinking smut on your wheat seed. Buy Corona Coppercarb. Largest and most progressive growers have rendered the verdict. A large practical usage in every section of the country has given entire satisfaction and the wheat growers insist upon buying it again. Why work nights to treat your wheat? Get rid of the old, disagreeable methods by using Corona Coppercarb. It saves time and labor—the seed can be treated any time before planting—it is not necessary to disinfect seed containers—not wetting the seed does away with the liability of freezing, heating or

sprouting—no setting of drill necessary for swollen grain—it saves seed—it costs less—it does not injure the seed and it prevents smut. Write for free literature. Use from 2 to 3 ounces per bushel of grain.

## Coppercarb, 20%

(Recommended for Spring Grain.)

Per 5-lb. package.....\$1.25  
Per case, 30 lbs.....6.50

## Coppercarb, 50%

(Recommended for Fall Wheat.)

Per 5-lb. package.....\$2.00  
Per case, 30 lbs.....8.40

Add Postage.

## "Black Leaf 40"

"Black Leaf 40" is approved by Federal and State Experiment Stations.

It is used with success on all "sucking" insects like aphids, thrips, and leafhoppers that feed by inserting their sharp, slender beaks into the interior of the leaf, blossoms, etc. They cannot eat plant tissue, hence cannot eat poison. They must therefore be destroyed with a preparation which kills by contact or by its fumes.



Size	Price
1 oz. ....	\$ 0.35
1/2 lb. ....	1.25
1 lb. ....	2.50
2 lbs. ....	3.75
5 lbs. ....	7.00
10 lbs. ....	11.85

## GARDEN AND LAWN SUPPLIES

### Asparagus Knives

48c



These are forged from round steel, well hardened and tempered to stand rough usage. Used also as a digger and weeder. One of the best for long root weeds such as Dandelions. Each, 48c; postpaid, 55c.

### Ladies' Flower Trowel

15c



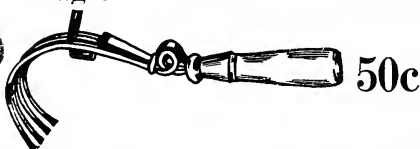
Every lady who works in the garden needs one of these trowels. Very well built and is riveted by the new method which makes it stronger. Long and slender which makes it easy to handle. No. 216, each, 15c; postpaid, 20c.

### Steel Garden Weeder



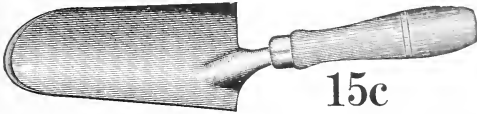
No. 82. Garden Weeder. One piece pressed steel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Each, 24c; postpaid, 30c.

### Magic Combination Weeder

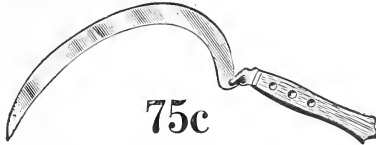


A very handy tool for use around flowers and small vegetables. Destroys the weeds and leaves the earth about the roots without disturbing the roots themselves. The blade or weed cutter is very handy for cutting roots or making furrows. Price 50c each; postpaid, 60c.



**Economy Garden Trowels****15c**

Heavy steel blade. No rivets, shellac handle. Just the thing for transplanting plants. 6-inch blade, 15c; postpaid, 20c.

**Forged Steel Grass Hooks****75c**

Forged cutlery steel blade. Tempered, ground and whetted to a sharp, keen edge. Has a raised or off-set hard-wood handle securely fastened. Perfect balance and swing. No. 427, each, 75c; postpaid, 85c.

**Ideal Weeder**

Well shaped handle, will not tire one's hand. One of the handiest tools yet devised for weeding between rows and plants and thinning out. Each, 24c; postpaid, 30c.

**The Doo-Klip Grass Shear**

No. 151A—Up and down moving handles prevent blisters, hand cramp, wrist tire, skinned knuckles and grass stains.

Through the use of a patented toggle action stud, the case hardened steel blades are self-sharpening and self-tensioning. Cuts all weights of grass without adjustment.

Handles are pinch-proof and finished in baked jade green enamel. Blades demount easily for sharpening. Not sold through chain or mail order stores. Guaranteed.

Each shear packed in an attractive display carton, six individual cartons to a shipping case. Weight of case, 7 pounds. Price \$1.50 each.

**LAWNETTE****The Lawn Maker**

The LAWNETTE spreads, quickly and uniformly, in any quantity desired, all grass seeds, plant foods and chemical powders now used in developing and maintaining nice velvety lawns.

No seeds or fertilizer wasted. Leaves no ridges or bare spots on the lawn. It sows close to the ground and avoids the loss by wind when light fertilizers are thrown around in the old-fashioned wasteful manner.

Use it FOR LAWN seeding and fertilizing in Spring, Summer and Fall. Then use it IN WINTER also for spreading sand or salt on icy walks and drives.

LAWNETTE saves in time, labor, seed and plant food in one season more than its small cost.

Weight 30 lbs. Each.....\$7.50

Can be shipped by parcel post.

**Wooden Labels**

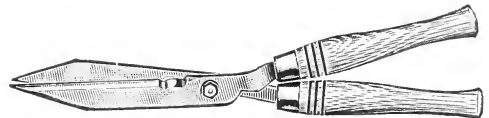
Know your seeds after you have planted them. Price, per 100, postpaid: 4 in., 35c; 5 in., 40c; 6 in., 45c.

**Transplanting Hoe Trowels****73c**

No market gardener should be without one of these. Will pay for it-self many times in a season in the saving of work and time. Blade and shank one piece with well constructed handle. Each, 73c; postpaid, 80c.

**Grass Shears**

Standard Grass Shear, with straight shank and narrow 6-inch blade. Black finish. No. 414, each, 49c; postpaid, 60c.

**49c****Hedge Shears**

Superior quality hedge shears, with forged steel blades and clear selected wood handles. Blades are secured to handles by rivets through the tang and ferrule. No. 421, 8-inch serrated notched blade, weight 2 lbs., price each, \$2.60. Add postage.

**The Doo-Klip Pruner**

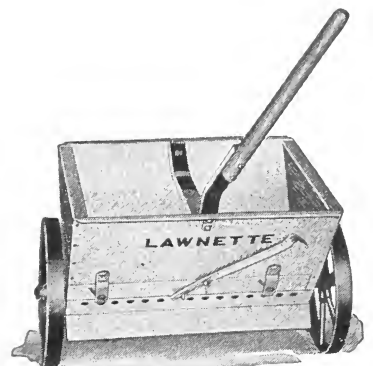
No. 150—A Pruner that is different because it is fool-proof. Amateurs prune without bruising the stalk because the blades are transposed from their ordinary arrangement. Gives a long, diagonal cut because blades are set at right angles to the handle.

No adjustments required as patented toggle action stud keeps the case-hardened steel blades under proper tension at all times.

Handles are pinch-proof and finished in baked jade green enamel. Blades demount easily for sharpening. Cuts anything up to one-half inch in diameter.

Not sold through chain or mail order stores. Guaranteed.

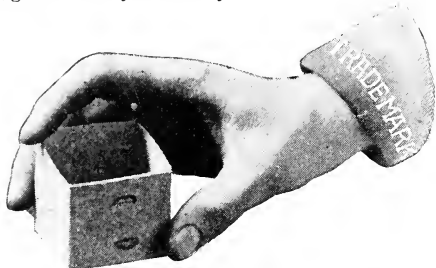
Each pruner packed in an attractive display carton, six individual cartons to a shipping case. Weight of case, 6 pounds. Price \$1.50 each.





## Plant Bands and Paper Pots

**PLANT BANDS**—The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands, because they are ready to use and no time is lost in setting them up. You will find these bands very economical; they make an ideal worm guard. Take advantage of high prices which plants and vegetables bring when brought to early maturity.

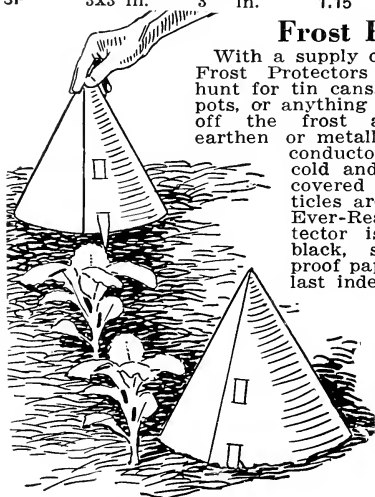


No.	Size	Depth	250 to carton:		
			Per 100	Prepaid Pkg. 250	Per 1000
2B	2x2 in.	2½ in.	\$0.75	\$1.50	\$4.30
3B	3x3 in.	3 in.	.90	2.00	6.10

## Bands With Folding Bottoms

Can be used as an extra deep band by leaving bottom unfolded. By pushing the flaps in you have a square pot with bottom.

No.	Size	Depth	Prepaid		
			Per 100	Pkg. 250	Per 1000
2P	2x2 in.	2½ in.	\$0.85	\$1.75	\$4.80
3P	3x3 in.	3 in.	1.15	2.25	7.50

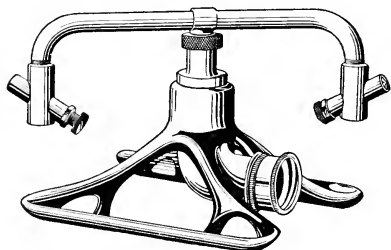


## Frost Protectors

With a supply of Ever-Ready Frost Protectors there is no hunt for tin cans, pails, flower pots, or anything that will keep off the frost and anything earthen or metallic is a good conductor of heat and cold and often plants covered with such articles are frozen. Our Ever-Ready Frost Protector is made from black, shiny, water-proof paper which will last indefinitely.

Price, including stakes: 5c each; 50c per dozen; 25 for \$1.00; 50 for \$1.85.

## The Whirling Showers

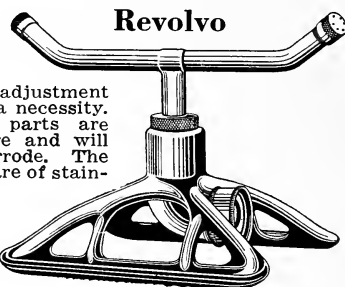


The Whirling Shower is easily one of the best lawn sprinklers manufactured. Due to the variable nozzle, a variety of sprays are obtainable, from a fine mist to a drenching rain. The working parts are all of brass, providing against rust or corrosion. This sprinkler is equipped with the new ball bearing feature and will require very little attention.

Whirling Showers, 2 lbs.....\$2.75

We recommend the Revolve for sprinkling where the adjustment feature is not a necessity. All working parts are brass and wire and will not rust or corrode. The ball bearings are of stainless steel and will not rust or jam.

Revolve, 2 lbs., \$1.75.

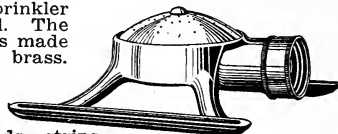


Our Ready Showers is a very desirable lawn sprinkler where a revolving sprinkler is not required. The perforated top is made of heavy sheet brass.

We recommend this sprinkler for use in sprinkling flower beds, strips and along the borders of walks. Can also be used in the hand as a hose nozzle.

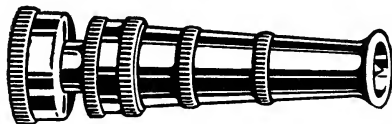
Ready Showers, 1 lb.....\$0.75

## Ready Showers



## Brass Nozzle

A Clean, Strong, Uniform Stream



Due to our PILOTED TIP always positively centered, we obtain a uniform stream, perfect in form and not one-sided as is often the case in nozzles where the tip is not positively centered. This perfect stream can be regulated to a fine spray if desired and it will cover a larger area than any other nozzle of like size now on the market. The actual size of nozzle is four inches. Price 75c; postpaid, 85c.

## Goodyear Garden Hose At Wholesale Prices

We are pleased to offer to our many customers a first grade non-kinkable heavy molded hose manufactured by the Goodyear Rubber Company at the low price of 9c a foot. Of extra heavy construction and termed by manufacturers as two-ply. Seamless inner tube, tough braided cotton cord, and seamless "corrugated tread" vulcanized together to form a solid tube which absolutely will not crack. Furnished complete with ¼-inch brass couplings.

Size	Length	Weight	Price
¾-inch	50 ft.	19 lbs.	\$4.50
¾-inch	25 ft.	10 lbs.	2.50

Furnished in only 25 and 50-foot lengths. Add postage.

## Hose Menders

Made of brass and will not rust. For joining a broken hose, cut through and insert the mender. No clamps required. ½ and ⅝ inch. State size wanted. Each, 10c.

## Hose Clamps

For a tight connection. Used to fasten hose to a coupling with nut and screw. ½ and ⅝ inch. Each, 5c.



## Hose Couplings

Made of brass in ½, ⅝ and ¾ inch size. State size wanted. Each, 15c; postpaid, 18c.



## Fertilize As You Sprinkle with the JECTOR Fertilizing Nozzle

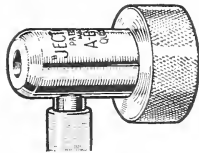


Takes the place of the regular garden hose nozzle. Applies any and all fertilizers and plant foods to lawns, gardens, trees and shrubs. The easy, rapid, safe way approved by fertilizer makers to apply their product evenly, properly and without danger of "burning." Simple to operate. Merely put any fertilizer in a bucket. Fill the bucket with water. Attach nozzle to garden hose. Drop suction tube into bucket of fertilizer solution and turn on the water. The JECTOR does the rest. Action is visible at all times; operation is continuous; no water to be

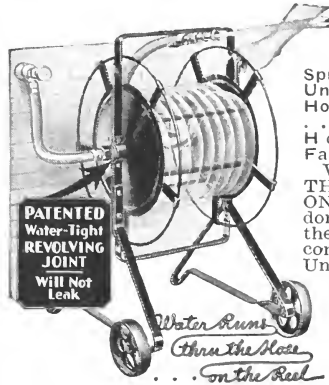
shut off, jars or tanks to be opened and frequently re-filled this modern way. The only device that can be instantly changed to discharge either fertilizing solution or clear water for rinsing or washing down. Applies all fertilizes, grass seeds, insecticides, lime, disinfectants, oil emulsions, crank case oil to lay dust, etc. Used on lawns, gardens, shrubs, trees, in henneries and outbuildings, to oil roadways, to kill chiggers, etc. Made of solid brass; special rubber tubing resists chemicals. Guaranteed satisfactory when used as directed.

Individually packed complete with nozzle, rubber tube and valuable booklet of instructions and suggestions.

**Retail Price \$1.50**



## NEW Patented Real REEL



Sprinkle... Without Unreeling Any More Hose Than You Need... Unreel With Hose Attached to Faucet.

WATER RUNS THROUGH HOSE ON REEL. You don't have to unreel the hose at all to connect to faucet. Unreel only as much

or as little as you need... never any surplus hose in the way! No tedious re-winding of all of hose

every time you sprinkle. The reel on wheels—rolls anywhere. Triples life of hose—no dragging of hose from faucet to faucet over gritty ground; prevents kinking; no exposure to the sizzling sun.

### MANY INDOOR AND OUTDOOR USES!

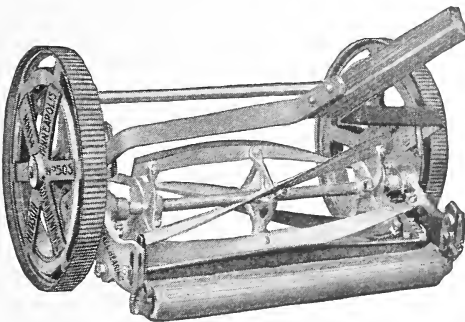
The REAL-REEL is an all-purpose reel, not just a "storage" reel. Handy for washing porches, floors, wetting coal and ashes, filling wash boiler, etc. No soiling of hands or clothes. Provides year-around fire protection—outdoors in summer, indoors in winter—always ready for instant use.

### ALL STEEL CONSTRUCTION

Made entirely of steel (no wood), with riveted joints. FULLY GUARANTEED. Weight packed, 24 pounds. Patented revolving water-tight joint; can't leak. Holds up to 150 feet of 3/4 inch hose and 100 feet of 1/2 inch hose.

Each, \$6.50. Can be shipped by parcel post.

## LAWN MOWERS AT WHOLESALE PRICES



**Light-Running, Noiseless, Attractive and Durable**

Our volume of business enables us to purchase in large quantities and by doing so we are able to offer a **NATIONALLY KNOWN GENUINE ALL STEEL ROLLER-BEARING LAWN MOWER** at the unheard price of \$9.75.

**SPECIAL FEATURES**—Large 9-inch wheels with special terrace lugs. High grass bar, bed knife, pivoted on combs with machine screw adjustment, blade knife made of crucible saw steel correctly tempered long life.

No.	Width	Weight	Price
305B	16 in.	46 lbs.	\$9.75

**LAWN MOWER NO. 505**—(Ball-bearing and 6 inch, four blade reel). High grass bar, 10 inch wheels, REEL contains 6 inch four blades and entire machine completely equipped with ball-bearings.

No.	Width	Weight	Price
505	16 in.	49 lbs.	\$10.50

**LAWN MOWER NO. 555**—(Ball-bearing). This machine carries the same general construction as our No. 505, but is equipped with a five blade reel giving it a much greater cutting capacity.

No.	Width	Weight	Price
555	16 in.	51 lbs.	\$13.50

## REINFORCED MULCH PAPER

Patent Applied For.

### The Better Mulch Paper—Stops Weeds, Speeds Growth

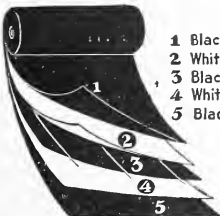
The value of mulch paper for growing crops has been established through scientific tests made by Agricultural Colleges, by the United States Department of Agriculture and by results obtained by farmers and gardeners.

Mulch Paper has proved a great labor saver, keeping down weeds, thus doing away with the necessity of weeding or cultivating. This means an important saving of time and money where labor is employed. Keeping the weeds down prevents their taking fertility from the soil, thus saving in the amount of fertilizer required.

Larger and Better Crops are produced where Reinforced Farmtex is used. The use of Reinforced Farmtex is not only economical, but it is also very profitable, producing more prolific yields of better quality vegetables or flowers. Lay the paper between rows. Place earth or stones on the edges to hold it in place.

Width	Length	Weight	Price
18-inch	150 yards	30 lbs.	\$4.00
36-inch	150 yards	60 lbs.	7.75

F. O. B. Great Falls.



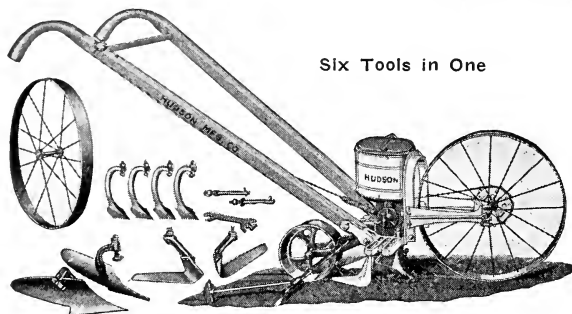
- 1 Black-Asphalt
- 2 White-Paper
- 3 Black-Asphalt
- 4 White-Paper
- 5 Black-Asphalt

## LANDSCAPING THE HOME GROUNDS

by L. W. Ramsey. Step by step, with photographs and plans that make each point clear, this new book shows just how to develop your home grounds

for greatest beauty. Each of the 175 illustrations tells a story or teaches an important lesson at a glance. 175 illustrations, 170 pages, \$2.00.

## HUDSON HILL AND DRILL SEEDER, SINGLE OR DOUBLE WHEEL CULTIVATOR



Six Tools in One

This Seeder and Cultivator is a **Combination** outfit having equipment to serve the gardener from seeding until final cultivation. It sows in hills or drills any garden seed from peas or beans down to the finest variety. Fitted with adjustments to care for every gardening requirement. Assembled from certified and selected units.

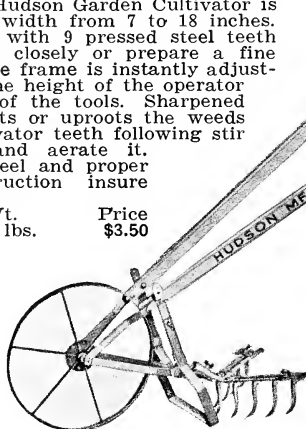
As a seeder, it opens the furrow, drops the seed, closes the furrow, packs the earth and marks the next row. The seed regulator is brass, with openings die cut to insure absolute uniformity. This gives perfect control of the seed flow and insures uniform drills, or hills 4, 5, 6, 8, 12, or 24 inches apart.

No.	Weight	Price
201	56 lbs.	\$16.00

## HUDSON GARDEN CULTIVATOR

The No. 3 Hudson Garden Cultivator is adjustable in width from 7 to 18 inches. It is quipped with 9 pressed steel teeth that cultivate closely or prepare a fine seed bed. The frame is instantly adjustable to suit the height of the operator or the pitch of the tools. Sharpened cutter bar cuts or uproots the weeds and the cultivator teeth following stir up the soil and aerate it. Wide tire wheel and proper frame construction insure easy traction.

No.	Wt.	Price
PE-1	12 lbs.	\$3.50

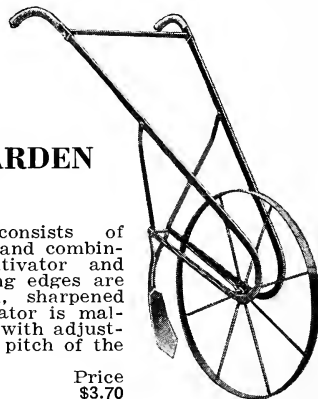


## HUDSON GARDEN PLOW

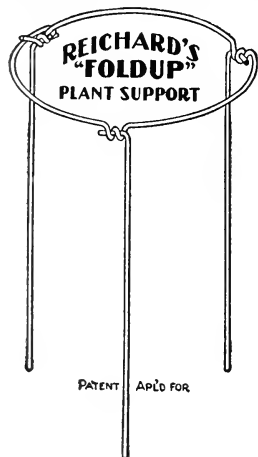
Adjustable

Tool equipment consists of double pointed shovel and combination five tooth cultivator and scuffle hoe. All cutting edges are of regular plow steel, sharpened and lacquered. Cultivator is malleable. Frame is steel with adjustments for varying the pitch of the tools.

No.	Weight	Price
242	21 lbs.	\$3.70

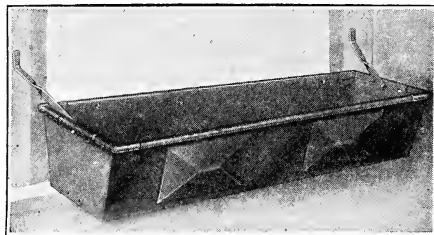


## PEONY AND PLANT SUPPORTS



Are made of strong galvanized wire, will not rust, very best support for peonies, tomatoes and such plants. Diameter of ring, 15 inches; length sidewires, 28 inches; weight, each, 1½ lbs; each, 35c; ½ doz., \$2.00; doz., \$3.50. Add postage.

## STEEL FLOWER BOX



Made of galvanized copper bearing steel, rust resisting. Corners heavily reinforced and full roll upper edges. Heavy embossed panels on front and ends. Finished in dark green. Water is poured into the flower box at the water entrances provided in opposite corners and flows along the bottom of the box under the arched false bottom.

Length	Width	Depth	Weight	Price
26 in.	6 in.	7 in.	8 lbs.	\$1.50
32 in.	6 in.	7 in.	10 lbs.	1.95

# MAKE YOUR HOME MORE BEAUTIFUL

## AT A SURPRISINGLY LOW COST

Our Trellises and Pergolas come in completed sections ready to put up and are painted pure white. All designs listed are manufactured from CYPRESS (called the wood eternal) or the wood armed against decay. This remarkable wood is rot-proof, insect proof, free from pitch and resin and positively will not shrink, warp, or twist out of shape. Each trellis is painted with two coats of pure white lead and oil paint. We invite you to make a comparison of our prices with that of your local carpenter.

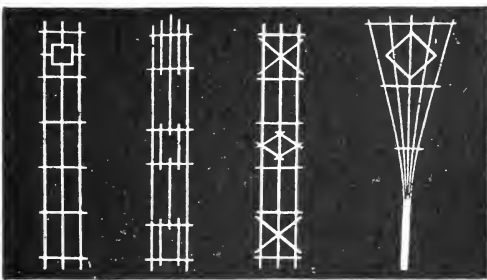
**ROSE ARBOR**—Height 7 ft., 18 ins. deep, top width 5 ft. and inside width 3½ ft. One of the prettiest and most popular pergolas. Especially attractive design and when covered with climbing roses or other climbing vines, make a beautiful bower for an entrance way to a flower garden. **Each, \$10.00 complete.**

**ROSE TRELLIS**—Height 8 ft., width 30 in. So constructed as to leave an open center and yet properly balanced to insure maximum strength. **Each, \$2.50.**

**BUNGALOW CHIMNEY TRELLIS**—Slightly tapered in construction and is especially designed for use on the outside chimney. Height 8 ft.; width at bottom 26 in., top 15 in. Painted snow white. **Each, \$2.50.**

**FLOWER BOXES**—Being constructed of one-inch pure CYPRESS these boxes will last indefinitely, no danger of warping, or crackling. Made of ventilated bottoms permitting a free circulation of air. Stained green on the outside only.

Length	Price
24 ins. ....	\$1.50
30 ins. ....	1.75
36 ins. ....	1.90

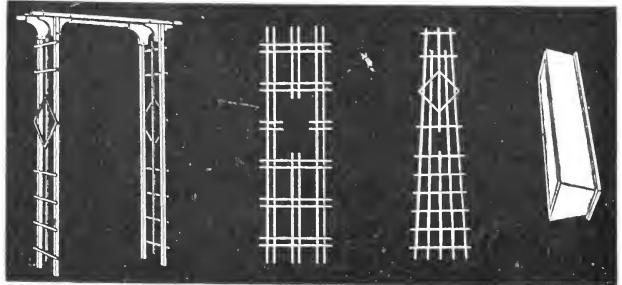


No. 4      No. 3      No. 2      Nu-Style Diamond

**SPECIAL FAN TRELLIS**—A new design that we feel sure will prove very popular. Height 8 ft.; extreme width, 54 ins. across top. A beautiful sight when covered with roses or other free blooming climbers. Easy to erect and very inexpensive. **Each, \$2.00.**

**SPECIAL WALL TRELLIS**—Decidedly unique in construction and appearance. Height 8 ft.; width 18 ins. Painted a pure snow white. **Each, \$1.85.**

**NO. 4 TRELLIS**—A new trellis simple but sturdy in construction. A narrow design to fit smaller spaces. Height 8 ft.; width 18 ins. Painted snow white. **Each, \$1.75.**



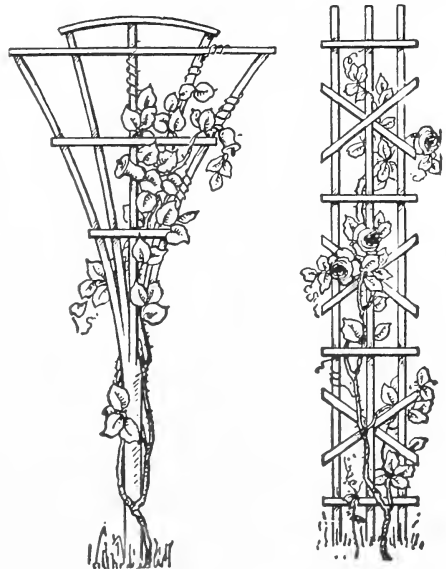
Rose Arbor      Rose Trellis      Bungalow      Flower Box

**NO. 3 TRELLIS**—This trellis proved so popular last season that we have decided to again list same. The design is simple, yet one that never becomes tiresome. Height 8 ft.; width 18 ins. **Each, \$1.75.**

**NO. 2 TRELLIS**—One of our prettiest designs, used in groups, gives exclusiveness to any porch. Will support the heaviest vines. Painted snow white. **Each, \$2.00.**

**NEW STYLE DIAMOND FAN TRELLIS**—The grouping of the ribs and arrangement of the diamond make this a design of exceptional beauty. Heavy spreaders bored to slip over fan ribs. This makes the construction more substantial and no danger of the trellis losing shape. Height 6 ft.; width at top 32 ins. **Each, \$1.90.**

When in Great Falls, call at our store and look over our new Pet Department where the latest in pet supplies will be found. In addition the latest in poultry feeds and supplies are prominently displayed so you may carefully inspect each piece of merchandise and compare for yourself the quality. We are here to serve.



Special Fan Trellis

Special Wall Trellis

## DIAMOND "G" LAWN GRASS AND LAWN GRASS MIXTURES

**THE QUANTITY OF SEED REQUIRED**—There is no fixed rule, but a liberal sowing is always satisfactory while a light seeding is a waste of time and money and usually disappointing. A beautiful lawn may be produced in a few weeks, or it may not approach perfection for two or more seasons, according to the quantity of seed sown. As a general rule the following quantities will produce the best results: one quart to 250 square feet; 1 pound to 300 square feet; 5 pounds to 1500 square feet; 100 pounds to the acre.

**GRAHAM ROSS SPECIAL LAWN GRASS MIXTURE**—Thoroughly tried and analyzed for germination and purity. Composed of only the best evergreen grasses, and made up from only the finest and cleanest grades of seeds. This splendid mixture is composed of only the finest dwarf-growing grasses, absolutely free from weed seeds or other impurities, especially adapted and mixed to suit our climate. Price: 1 lb., 70c; 5 lbs., \$3.25, postpaid.

**SHADY NOOK LAWN MIXTURE**—On nearly all lawns there are unsightly bare spots under the shade of trees, which have baffled all efforts to get into grass, but with this mixture there need be no further difficulty. It is a combination of fine, dwarf-growing, evergreen varieties, which in their wild or natural state are to be found growing in the woods or other sheltered and shaded spots. Ground that has been densely shaded by trees is frequently "sour" and if drainage is defective, it is

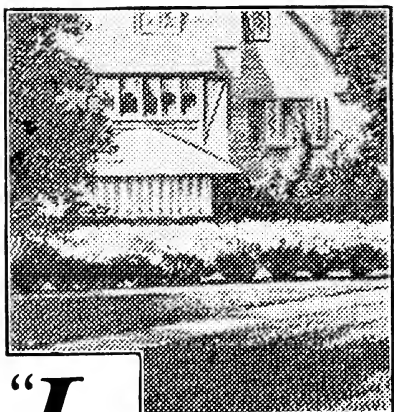
apt to be covered with moss and coarse bog grasses. In such cases an application of slaked lime, at the rate of one bushel to each thousand square feet, or forty bushels to the acre, is an excellent corrective and sweetener, but the moss should be first removed by the use of a sharp rake. Price: 1 lb., 75c; 5 lbs., \$3.50, postpaid.

**KENTUCKY BLUE GRASS**—The old tried and true grass for lawns, also for pasture as it will grow under a variety of conditions and produce palatable and digestible green feed. Our Kentucky Blue Grass grades exceptionally high this year, weighing 24 lbs. to the bushel and is fine, bright, plump seed. Prices: 1 lb., 70c; 5 lbs., \$3.25, postpaid.

**MEADOW FESCUE OR ENGLISH BLUE GRASS**—Produce a large amount of feed of good quality all through the season. Is one of the earliest of spring grasses and persists latest. Does not freeze out or winter kill. Very desirable for use in meadow and pasture mixtures. Live stock relish it highly. Per lb., 45c; postpaid 55c; 5 lbs., \$2.25, postpaid.

**ENGLISH OR PERENNIAL RYE GRASS**—Does very well in this country; moist and rich clays or loams are the soils best suited to it; the seed is heavy and very quick to start; an exceptionally good lawn grass where quick results are wanted. Prices: Per lb., 35c; 5 lbs., \$1.25, postpaid.

**"X-L" WHITE DUTCH CLOVER**—An excellent pasture clover, forming in conjunction with Kentucky Blue Grass, the finest and most nutritious food for sheep and cows. It is extremely hardy and is universally used for lawns in the Northwest. Sow 5 to 8 pounds to the acre alone for pasture; for lawn, 1 pound to 400 square feet. Prices: Per lb., 75c; 5 lbs., \$3.50, postpaid.



## "Lawn .. rich green"

"With Vigoro our lawns have been thickly matted, a rich green all season," says W. L. Austin, head gardener, Frank O. Lowden Estate, Oregon, Ill. "Flowers were hardier, heavily blossomed."

Typical of the success with Vigoro! Complete, balanced, it supplies all elements of plant food required for early growth, perfect development. Clean, odorless! Costs only 10c to 20c per 100 sq. ft. Sold where you buy lawn and garden supplies. Order today!

# VIGORO

COMPLETE PLANT FOOD

A SWIFT & COMPANY product

25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$6.00, F. O. B. Great Falls.

## SEED OF THE BENT GRASSES

**EUROPEAN MIXED BENT**—(So-called "Creeping Bent") is a mixture of Bent including true Creeping Bent, and a large percentage of Rhode Island Bent. It has been in high favor as a putting green grass. The important advantage of the Bent Grasses on lawns is that they like acid soils and can be fed with acid reacting fertilizers, such as ammonium sulphate, the constant use of which discourages weeds. These seeds are somewhat to be preferred to the Creeping Bent Stolons for lawn purposes (but not for putting greens) because they do not grow so rapidly and the average homeowner can keep up with the mowing. Seed at the rate of 3 to 4 lbs. per 1000 sq. ft. 1 lb., \$1.25; 2 lbs., \$2.50; 3 lbs., \$3.70; 5 lbs., \$6.00; 10 lbs., \$11.50.



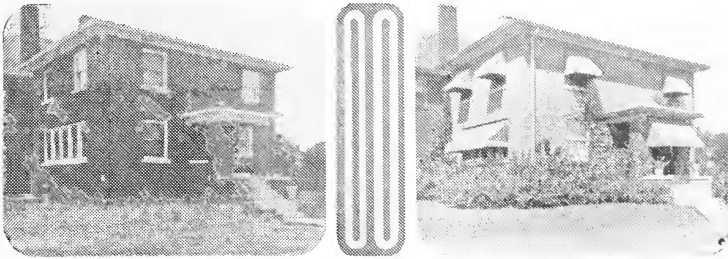
## LAWNS

By F. F. ROCKWELL

You will find use for this information year after year, for it shows both how to start a lawn right and how to keep it smooth and velvety thereafter. Full of suggestions on laying out the lawn, grading, fertilizing, planting, care after planting, weed and pest control, and remaking and repairing old lawns. 39 illustrations, 87 pages, \$1.00.

# FLOWER SECTION

## ANNUALS



Before and After Planting

PRICES OF ALL FLOWER SEEDS ARE POSTPAID.

### AGERATUM MEXICANUM

Height 12 inches.

For strengthening the garden's color forces in blue, no annual is as good as the Ageratum. They grow well upon almost any soil and in any climate. The plants are bushy, erect, and produce clusters of pretty brush-like flowers throughout the season. They make fine borders. Pkt., 10c.

### ALYSSUM

Height 6 to 12 inches.

This plant is used for borders, edging, baskets, pots, rock-work, and for cutting. For borders the seed should be sown thickly so as to form masses. Alyssum can be increased from cuttings made from strong new side shoots as well as by division of the roots.

**SWEET ALYSSUM**—Standard variety for borders, window boxes, masses, etc. It is of trailing habit, bearing many fragrant white flowers. Pkt., 10c.

**ANNUAL EVERGREEN**—See Burning Bush.

### AMARANTHUS

2 to 5 feet.

These robust annuals are grown for their brilliantly colored foliage. They grow very tall and are very effective and showy garden plants, adapted for centers and backgrounds of flower beds.

**TRICOLOR (Joseph's Coat)**—The innerfoliage is black and bronze, tipped with green, and the outer foliage is bright red and yellow. This plant is very attractive. Pkt., 10c.

### ASPERULA AZUREA SETOSA

Height 9 inches.

A flower finely adapted for bouquets by reason of its shape, size and delicate colors, which are light blue or lavender. It is a hardy annual, blooming from July until after frost. This plant is very effective when grown in masses. Pkt., 10c.



Queen of the Annuals

**Asters**

Most plants can be divided into two classes, Annuals and Perennials. Annuals are one-year plants. The seed is sown; the plants bloom, produce seed and die the same year. Many of our prettiest garden flowers are annuals. They are inexpensive, give a wealth of bloom, are admirable for the rented house garden, and are adapted to most soils and climates.

Annual plants which have a suitable habit of growth and adequate foliage may be made to do duty about the house and on the grounds in the place of shrubs and perennials.

### Antirrhinum

(Snapdragon)

Height 12 to 24 inches.

A very desirable flower for general garden culture. It is a valuable border plant. Flowers the first year. The bright color and peculiar form of the flowers always attract attention. They are useful for cutting and keep fresh a long time. From seed sown in the open ground in May, plants will bloom in July and August and then continually until frost. Rose pink, bright yellow, brilliant crimson. Pkt., 10c; Special mixed, all colors, pkt., 10c.



Snapdragon

### ASTERS

**QUEEN OF THE MARKET**—This type of Asters has proven very popular in this section, being a very early-flowering type. Plants are of the branching habit, bearing from 10 to 15 flowers of medium size, being very pretty.

**DARK BLUE**—A very beautiful color. Pkt., 10c.

**FLESH**—A new color and a beauty. Pkt., 10c.

**SCARLET**—An attractive red. Pkt., 10c.

**ROSE PINK**—A soft pleasing rose. Pkt., 10c.

**FINEST MIXED**—All shades. Pkt., 10c.

**ASTER, IMP. CREGO or COMET GIANT**—Flowers large with very large, twisted, curled petals. Very fine as cut flowers; height, 18 inches. The colors are exquisite. Asters are especially popular for their beauty and lasting qualities. All colors mixed. Pkt., 10c.

**GIANT OSTRICH FEATHER**—The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

Crimson, dark blue, soft pink and mixed. Pkt., 10c.

for Luxuriant Shrubs and Trees  
feed them this complete,  
balanced diet

**VIGORO**  
Complete plant food





## California Giant Asters

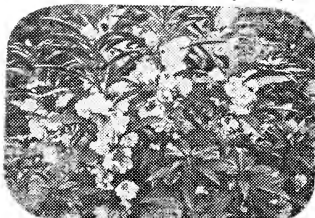
This type of Asters is of the largest and most beautiful variety, often measuring 4 to 5 inches across the top of the flower. Their immense size and beauty as well as their long and sturdy stems make them very attractive as cut flowers. This is something new in the Aster family and no garden will be complete without them. You cannot appreciate the beauty of them until you have grown them. Per pkt., 25c.

### GIANT ASTER SPECIAL, 50c

To all lovers of this wonderful flower we offer one pkt. each of dark blue, flesh, rose pink, crimson, soft pink, scarlet and mixed. Regular price, 70c; postpaid, 50c. Ask for Fancier's Collection of SUPERB GIANT ASTERS.

### Balsam

(Lady Slipper)



Balsam

doors in April or sown outdoors in May. Double mixed. Double white. Double Camelia-Flowered (fine), all 10c per pkt.

Height, 2 feet. A very old garden flower which has been greatly improved in the last few years. The flowers are of brilliant colors and are produced in great profusion. May be classed as tender annuals and should be started in

### Bachelor's Button

(Centaurea Cyanus)

Height 2 feet.

Also called Cornflower, Ragged Sailor and Blue Bottle. They will adapt themselves to almost any situation. Excellent for cutting and are well known. It reseeds itself so that it is practically perennial in habit. Pkt., 10c.

### Brachycome

(Swan River Daisy)

Height 6 inches.

A delicate dwarf-growing plant suitable for growing in masses, edging and rustic baskets. Flowers are of various shades of blue, lilac, and white with dark and white centers. Pkt., 10c.

### Burning Bush or Summer Cypress

(Kochia Trichophylla)

Height 40 inches

One of the most satisfactory plants for annual hedges. When sown thinly so that each plant can develop it makes a beautiful symmetrical plant. Remains green all summer and turns deep red in the fall. Pkt., 10c.

### Calendula

Officinalis

(Pot Marigold)

Height 18 inches.

This splendid variety has large double flowers beautifully imbricated resembling in form and size the finest aster. Each petal of pale straw color is regularly marked with a stripe of bright deep orange. Blooms profusely with a succession of flowers from July till frost. Pkt., 10c.

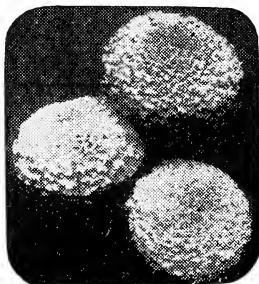
DOUBLE ORANGE KING—Deep golden orange. Pkt., 10c.

DOUBLE MIXED—Orange, yellow, and primrose. Pkt., 10c.

### Candytuft

Height 1 foot.

A popular annual of easy culture. The plants are about a foot high and very bushy. The flowers are of various colors and equally adapted for borders, masses and cut flowers. The white flowers are very fragrant. White, pkt., 10c; Dwarf Tom Thumb mixed, pkt., 10c; many colors, mixed, pkt., 10c.



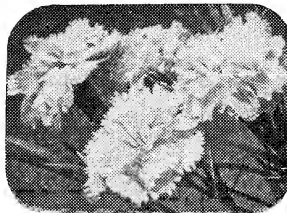
Marigold

## Calliopsis

(Coreopsis)

Height 2 feet.

One of the garden's great forces in yellow, strengthened with rich maroons and browns. Seed of the calliopsis should be sown in the open in May, and will then produce an abundance of flowers from August until frost. All are fine for cutting. Pkt., 10c.



Carnations

## Carnation

Height 18 inches.

This beautiful and well known flower produces a finer bloom when grown from seed than grown from cuttings taken from old plants. Our seed will produce a fine variety of colors, with flowers of good size and substance.

MARGUERITE

CARNATION—The

most popular variety for the amateur. Flowers in a few weeks from the time of sowing and produces beautifully fringed and wonderfully fragrant flowers. With a slight covering they will survive an ordinary winter and bloom again in the spring. Pkt., 10c.

## Castor Bean

Height 6 to 10 feet.

A luxuriant expansive foliage plant, of tropical appearance that should have a place in every garden affording the requisite space. The stalks of the plants are brownish red, and the leaves are very large, palmate and strikingly elegant.

SANGUINEUS—Large red. Pkt., 10c; oz., 15c.

ZANZIBARIENSIS—A giant variety introduced from New Zanzibar. Pkt., 10c; oz., 20c.

## Cockscomb

(Celosia)

Height 2 1/2 feet.

Highly ornamental plants, producing crested heads of flowers somewhat resembling a cock's comb. There are many colors and shapes, but the scarlet and crimson ones are the most brilliant and rich. The oftener they are transplanted or shifted, the larger and more beautiful they grow. Blossoms in August and September.



COCKS COMB

Flowers look like graceful plumes of brilliant colors. Pkt., 10c; Dwarf mixed, pkt., 10c; tall mixed, pkt., 10c.

## Centaurea

Height 1 1/2 to 2 feet.

CENTAUREA CANDIDISSIMA (Dusty Miller)—Fine foliage plants for bedding, baskets, pots and borders. The leaves are silvery white making a fine border for a bed of Salvia. Pkt., 10c.

CENTAUREA IMPERIALIS (Royal Sweet Sultan)—One of the finest of the Sweet Sultans. The beautiful, sweet-scented flowers are borne on long stems and will keep a long while. Pkt., 10c.

## Coleus

Height 18 inches

The most popular of all foliage plants. Easily grown from seed, but must be started in a box in the house or hothed, as the seed is very fine and when sown should be scarcely covered but must be kept moist. Tender annual.

MIXED COLORS—Pkt., 10c.

## Cosmos

Height 3 to 4 feet.

Cosmos is now one of the notable fall flowers. It is a strong, tall growing annual, yet its bright bold flowers have daintiness and airiness which is heightened in effect by the feathery green foliage. It is most effective when planted in masses or background borders against fences.



**EARLY FLOWERING**—Mixed, pkt., 10c.  
**LATE FLOWERING**—White, pink, crimson, yellow and mixed, pkt., 10c.  
**DOUBLE or CRESTED COSMOS**—These double crested flowers are a decided improvement over the single flowers and are just as easily grown. Pkt., 15c.

### Chrysanthemums

Height 20 inches.

**EARLY ANNUAL CHRYSANTHEMUM**—A beautiful double variety of easy culture. The seeds may be sown in the house and then transplanted outdoors or may be sown just where they are to bloom. A little shade in the afternoon is beneficial and if the plants are pinched back until July 15 they will be more branching. Pkt., 10c.  
**DOUBLE MIXED**—Pkt., 10c.  
**SINGLE MIXED**—Pkt., 10c.

### Didiscus

(Blue Lace Flower) (Coeruleus)

Height 2 feet.

This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time. Pkt., 10c.

### Dimorphotheca

Height 12 inches.

**AURANTIACA** (Golden Star of the Veldt)—Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring. Pkt., 10c.

### Eschscholtzia

(California Poppy)

Height 1 foot.

The state flower of California and one of the most attractive annuals for bed edging or masses. The finely cut foliage with the mass of bright colored flowers makes a most beautiful sight. They bloom from June until frost. Pkt., 10c.

**BALLET GIRL**—Carmine and creamy white. Pkt., 10c.

**SCARLET BEAUTY**—A very deep scarlet. Pkt., 10c.

**MIXED**—The above colors and many others in well-balanced mixture. Pkt., 10c.



### Euphorbia

Height 36 inches.

Strong growing annuals for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage however is exceedingly ornamental.

**HETEROPHYLLA** (Mexican Fire Plant)—Annual poinsettia resembling in habit and color the beautiful hothouse poinsettia. About mid-summer the center top leaves of each branch turn orange-scarlet. Pkt., 10c.

**VARIEGATA** (Snow on the Mountain or Mountain Spurge)—2 ft. Remarkably distinct plant; very showy with its foliage edged white and green. Pkt., 10c.

### Everlasting Flowers

Height 18 inches.

A fine mixture of many of the straw-flowered varieties. These are excellent for winter bouquets as they will retain their color all winter. Pkt., 10c.



### Four O'Clock

Height 3 feet.

Marvel of Peru or Mirabilis Jalapa. The plant is quick-growing, erect and bushy. It blooms during the late summer and autumn. It derives its name from its habit of opening its flowers only late in the afternoon and on cloudy days. Pkt., 10c; oz., 15c.

### Godetia

Height 18 inches.

Also called Evening Primrose. They are free-blooming annuals suited for solid beds, border lines, and to grow shrubby borders in shaded places, where few other flowers will flourish. Blooming season is from May until frost. Pkt., 10c.

### Gypsophila

Height 1 foot.

Small white and pink fairy-like flowers, borne on long feathery stems. No flower adds more light and grace to a bouquet than this. Blooms from first of July till frost, and are desirable for winter bouquets.

**ELEGANS PINK**—This delicate rose-pink flower makes a beautiful border. Pkt., 10c.

### Helianthus or Sunflower

Height 3 to 5 feet.

These new ornamental sunflowers are excellent for garden planting, for screening unsightly places and also for bouquets.

**HELIANTHUS GLOBOSUS** (Double)—Flowers are large, double and of rich saffron color. Pkt., 10c; oz., 20c.

### Helichrysum

(Strawflower) (A)



Helichrysums are an ornament to the garden when growing, and are everywhere prized for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads

downward in a cool place.

**GOLDEN BALL**—Yellow. Pkt., 10c.

**SPECIAL MIXTURE**—This mixture of Helichrysum is an improved large-flowered strain containing many new and exquisite shades. Pkt., 10c.

### Heliotrope

Height 20 inches.

A tender purple plant with a sweetly haunting perfume. Start seeds in box. Pkt., 10c.

### Ice Plant

(Mesembryanthemum)

Height 8 inches.

Foliage covered with ice-like globules. Suitable for porch boxes or hanging baskets. Pkt., 10c.

### Job's Tears

(Coix Lachrymae)

Height 3 feet.

Curious ornamental grass from East Indies, with broad, corn-like leaves and seeds of a light slate color, wonderfully lustrous. Valuable for winter bouquets, and beads are sometimes strung from the seeds. Pkt., 10c.

### Larkspur

(Annual Delphinium)

Height 2 to 3 feet.

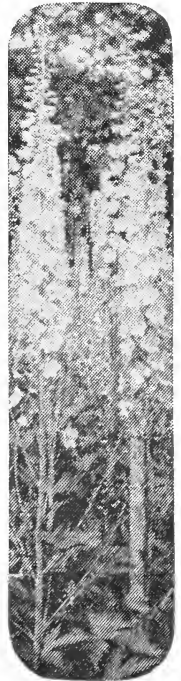
The annual varieties include the rocket and hyacinth-flowered larkspur, so called from their long narrow flower spikes. They bloom best in rather cool, moist soil. Tall mixed, pkt., 10c.

### Linum

(Scarlet Flax)

Height 18 inches.

A showy and effective bedding plant. The flowers are deep crimson with black centers and saucer-shaped. The foliage of the plant is delicate and slender. Pkt., 10c.



**Lobelia**

Height 6 inches.

An elegant and useful class of plants, dwarf, compact growth, bearing a profusion of delicate flowers, in bloom through the summer and autumn. Make a neat and effective edging for geraniums and ornamental-leaved plants; pretty for baskets and vases and porch boxes. Colors are deep blue and blue marked with white. Pkt., 10c.

**Lupinus (A)**

Height 3 feet.

Free flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders, beds and for cutting; prefers a little shade.

**HARTWEGII, WHITE**—Pure white flowers, pkt., 10c.

**Marigold**

Height 30 inches.

The African and French Marigolds are among the most popular of free-flowering annuals of easy culture. The plant is of compact symmetrical growth, handsome foliage, bears a profusion of flowers of brilliant shades of yellow, marked with maroon and brown. They are about one and one-half inches in diameter.

**DWARF DOUBLE FRENCH**—Pkt., 10c.

**TALL DOUBLE AFRICAN**—Pkt., 10c.

**TALL ORANGE PRINCE**—A new Marigold. Bears enormous orange-colored flowers of the quilled type. It is hardy, a free bloomer, and a most satisfactory variety. Pkt., 10c.

**LEMON BALL**—Light yellow, ball shaped. Pkt., 10c.

**Matricaria**

Height 24 inches.

**CAPENSIS FL. PL. (Feverfew)**—3 ft. Neat, small, double white flowers, well adapted for bedding and cutting. They are perennials in mild climate, but in our latitude are treated best as annuals. Pkt., 10c.

**Mignonette**

(Reseda Odorata)

Height 1 foot.

One of the best-known and most popular flowers, indispensable for the garden; is suited to almost any location and soil, furnishing fragrant blossoms continuously through the summer and until after severe frosts. This can also be grown in pots for winter flowering.

**SWEET GRANDIFLORA**—Large flowering, very fragrant. Pkt., 10c; oz., 20c.

**Mourning Bride**

(Scabiosa Atropurpurea)

Height 18 inches.

These hardy annuals show a great variation of color, and the long stems and keeping qualities of the blossoms make this one of the best annuals for bouquets. They are easily grown and are also desirable for beds and borders. Pkt., 10c.

**Nasturtiums**

A wide range of colors has been developed in this favorite flower, which for three or four months of the season makes a better display



Nasturtiums

than almost any other plant. Will produce flowers for bouquets all summer and fall.

**TALL NASTURTIUMS**—Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; 1 lb., \$1.00; postpaid. (4 feet).

**DWARF NASTURTIUMS**—Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; 1 lb., \$1.00; postpaid. (12 inches).

**Nicotiana Affinis**

Height 2 1/2 to 3 feet.

Belongs to the tobacco family and are very desirable border plants. The plants are in full flower every sunny day from June until frost. The blossoms are trumpet shaped, and are borne on tall stems in colors of blue, red, and rose. Pkt., 10c.

**Pansies**

Height 8 inches.



Pansies

Always a favorite with everyone, and too well known to need any description. The plant is a hardy biennial and will bloom the second year but as the flowers are not as large the second year it is better to resow each season. The seed may be sown in the fall or very early in the spring.

**TRIMARDEAU PANSIES**—A superior race of robust, deep-rooting plants bearing fine large flowers of great variety of colors. Pkt., 15c.

**CHOICE MIXED PANSIES**—Pkt., 10c.

**Petunias**

Height 18 inches.

Because of the ease and facility with which all of the single-flowered varieties of the Petunia can be grown from seed, this plant commands attention as a worthy candidate for the summer flower garden. They are attractive in beds and masses, serve well for broad borders or bands, and thrive in window boxes.

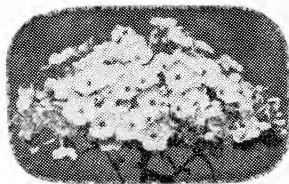
**CHOICE MIXED**—Pkt., 10c.

**Phlox****Drummondii**

Height 1 foot.

The Phlox Drummondii is sometimes called the flame flower, and is very attractive when grown in masses. They are very easily grown, give a quick return of bloom and offer a large variety to choose from. They are also beautiful in beds and borders. The seed may be sown any time after danger of frost is past.

**CHOICE MIXED**—Pkt., 10c.



Phlox, Drummondii Grandiflora

**Pinks**

(Dianthus)

Height 1 foot.

A popular class of flowers which should be used more generally in garden culture. The flowers are distinguished for their brilliant, contrasting variety of colors appearing in each flower. Bloom constantly from July until frost and if covered will bloom again the second season.

**CHINENSIS (Double China)**—Mixed. Pkt., 10c; 1/4 oz., 20c.

**LACINIATUS (Double Imperial)**—Mixed. Pkt., 10c; 1/4 oz., 20c.

**Poppies**

An old-fashioned flower that has come back into popular favor. They bear so profusely and are of such brilliant colors that they are especially valuable for mass planting. The flowers should be picked just before they open and in the morning when the dew is on them. The annuals should be planted early in the spring and not transplanted but thinned to at least 4 inches apart.

**SHIRLEY (A)**—The most beautiful type of Poppies, having soft, hairy foliage and immense flowers. Single blossom white, pink, apricot, and shades of red and scarlet. Petals dainty and look as if made of crepe paper. Pkt., 10c. (Height 20 inches).

**PEONY FLOWERED**—Large, showy double fringed flowers of various colors. Pkt., 10c. (Height 24 inches).

**DOUBLE CARNATION FLOWERED**—Mixed. Pkt., 10c. (Height 20 inches).

**TULIP (Glaucum)**—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c. (Height 24 inches).

**Portulaca**(Moss Rose or Sun Plant)  
Height 6 inches.

These trailing plants love the sun and stay close to the soil. The round flat flowers set close and brilliantly illumine the emerald of the foliage with vivid shades of red, yellow, pink and white. Fine for massing in beds, edging, rockwork and frequently used to cover sunny banks. It is a good plan to mix the seed with three or four times as much sand or dry earth to get a better distribution in sowing. Single, mixed, pkt., 10c; double mixed, pkt., 15c.

**Pyrethrum Aureum**

Height 12 inches.

A beautiful bedding plant with golden leaves, called Golden Feather. Pkt., 10c.

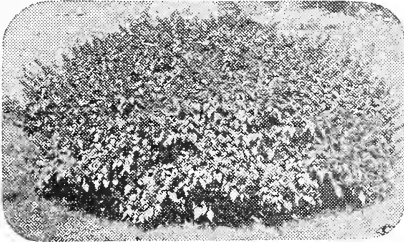
**Salpiglossis**

Height 32 inches.

These are very showy bedding or border plants with richly colored funnel-shaped flowers which are borne on long graceful stems. The flowers are of purple-scarlet, yellow and blue. They are very desirable for cut flowers. The flowers resemble the Petunia in shape and each flower is veined with a glint of gold. Pkt., 10c.

**Salvia Splendens**

Height 2½ feet.



Salvia

The brightest and most popular of all bedding plants. The brilliant scarlet flowers are very striking against the dark green background of foliage. One of the most effective bedding plants. Pkt., 10c; ¼ oz., 75c.

**Schizanthus**

Height 18 inches.

A beautiful annual that should be in every garden. The flowers are so dainty that this is often called the Butterfly Flower. They come into bloom very quickly and are splendid for borders, gardens, and also for cut flowers. Pkt., 10c.

**Statice (A)**

Height 36 inches.

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting, and have come to be indispensable in making winter bouquets.

CHOICE MIXED—Pkt., 10c; 3 for 25c.

**Stocks**

Height 18 inches.

Almost indispensable where a fine display of flowers is wanted. Particularly fine for edging, bedding and pot culture. Our improved variety produces dense spikes of very fragrant and beautiful rosette-like double flowers in a wide range of colors.

IMPROVED GIANT MIXED—Pkt., 10c.  
EVENING-SCENTED (A)—Height 15 inches. Lilac flowers which in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. Pkt., 10c; 1 oz., 30c; ¼ lb., 80c.

**Sweet Sultan**

(Centauria Moschata)

Height 2 feet.

The flowers are exquisitely fringed, three to four inches across, borne on long stems and are very fragrant. For bouquets they are unexcelled and should be found in every garden. In bloom from July until October. Pkt., 10c.

**Ten Weeks Stocks**

(Cut and Come Again—Cheiranthus Matthiola)

Height 1 to 2 feet.

These plants have all the desirable qualities of a flower. The flowers look like small rosettes, appear on long stalks, are exceedingly fragrant, and the flowers are of all colors. Pkt., 10c.

**Thunbergia (A)**

Height 5 feet.

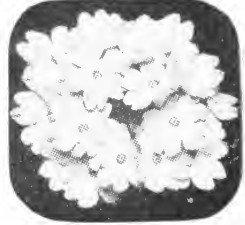
A beautiful trailing plant with very attractive flowers. It will creep over the ground, making a very pretty mat effect of foliage and flowers. All colors of yellow, buff, orange to pure white, with jet black centers or eyes, very attractive. Commonly called Black-eyed Susan. Makes a good pot plant for winter blooming.

MIXED COLORS—Pkt., 10c.

**Verbenas**

Height 18 inches.

The Verbena is one of the most popular bedding annuals. Easily grown from seed, and can be used in beds, borders, mounds, vases, rockwork and window boxes with good results. The flowers are of very bright colors and are produced profusely from June until frost. Purple, blue, or mixed, pkt., 10c.



Verbena

**Zinnias**

Height 18 to 24 inches.

The Zinnia is easily grown from seed sown in the open ground. Of late, great improvements have been wrought both in color and form of the flower. During the month of

August Zinnias are at their best. To

secure large flowers and a profusion of bloom the plants must be given ample room for full development, as well as an abundant supply of food. Strong rich soils suit the Zinnia. They can be used for masses, borders, garden lines and summer hedges. We consider the Zinnia the most satisfactory flower for the Middle West. Pure orange, pkt., 10c; light pink, pkt., 10c; burnt orange a new shade, pkt., 10c; a deep crimson, pkt., 10c; blood red, pkt., 10c; lavender, pkt., 10c; mixed, all above shades and others, pkt., 10c.

**Rainbow Collection Giant Free-Flowering Zinnias, 50c**

Zinnias are one of the showiest of all annual flowers and we have taken great care to choose only those colors that will add charm to any garden. One regular 10c pkt. of the following: pure orange, light pink, burnt orange, deep crimson, blood red and California Giants. Regular price 65c; post-paid price 50c.

**Zinnias**

(California Giants 3 to 4 feet)

They are larger than Colossal and a cross between them and the Dahlia Flowered types. They have smaller flat centers with more loosely placed petals. The petals are decidedly imbricated and the flower from bud to full bloom presents a graceful appearance. Mixed, pkt., 15c.

# "X-L" SWEET PEAS

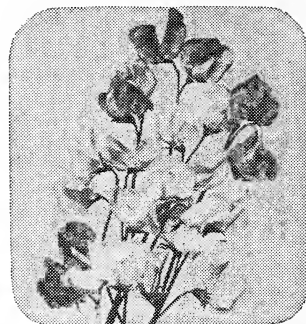
(See Back Cover Page)



Early Flowering Spencers



Let the children plant a few Sweet Peas



Mary Pickford—Pinkie

Every garden should have a row of Sweet Peas. They will repay you well for the attention given them. The flowers make beautiful bouquets and are unsurpassed for table decoration. The climbing habit of the plant prevents its use in the masses or borders and it does not reach a height sufficient to be used as a cover or screen for a lattice. But they are beautiful when grown in rows and provided with a support.

## Early Flowering Spencers

Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$2.00, post-paid.

This new race of Sweet Peas bears plants of extra strong constitutions. They have the large wavy flowers of the Spencer but bloom earlier and the season of bloom is much longer. Under favorable conditions they will bloom continuously for about four months, and they are excellent for growing under glass.

**EARLY HARMONY**—We believe this to be the best clear lavender of all early Spencers.

**VULCAN**—The most vivid scarlet color ever seen in Sweet Peas.

**PERFECTION**—A clear deep pink of enormous size.

**EARLY BLUE BIRD**—An attractive shade of clear blue.

**EARLY SPENCER MIXED**—A well balanced mixture made up from main varieties. Pkt., 10c; ½ oz., 30c; oz., 50c.

## Standard Spencers

Priced except where otherwise priced. Pkt., 10c; oz., 30c; ¼ lb., 90c; ½ lb., \$1.75; 1 lb., \$3.00.

These are second early in season of bloom and are usually called the late flowering Spencers. The flowers are very large, of exquisite shape, and are borne in threes and fours on long stout stems. They bloom profusely and for a longer time than the old Grandiflora type.



**NUBIAN**—The nearest color to pure chocolate yet introduced in Spencer Sweet Peas.

**KING WHITE**—Remarkable for the glistening purity of the whiteness and the perfection finish of the flower.

**AUSTIN FREDERICK**—Our stock is of the improved strain. Flowers of larger size, well placed on long stems. Color a true lavender, the best yet introduced.

**BLUE BIRD**—A true blue; beautifully waved and frilled. This will make exquisite bouquets for the dining room or bedroom. Like the other new varieties it is the lustiest kind of a grower with long stems that you like to pick.

**HUNTSMEN**—A new introduction that will prove a favorite in your garden. Extra large flowers of real bright scarlet borne on long stems.

**JACK HOBBS**—A new shade of scarlet pink on a cream background. Very distinct and attractive, makes a wonderful bouquet when picked alone.

**KING EDWARD**—A rich and brilliant crimson. This variety is a vigorous grower and produces flowers of large size and beautiful form.

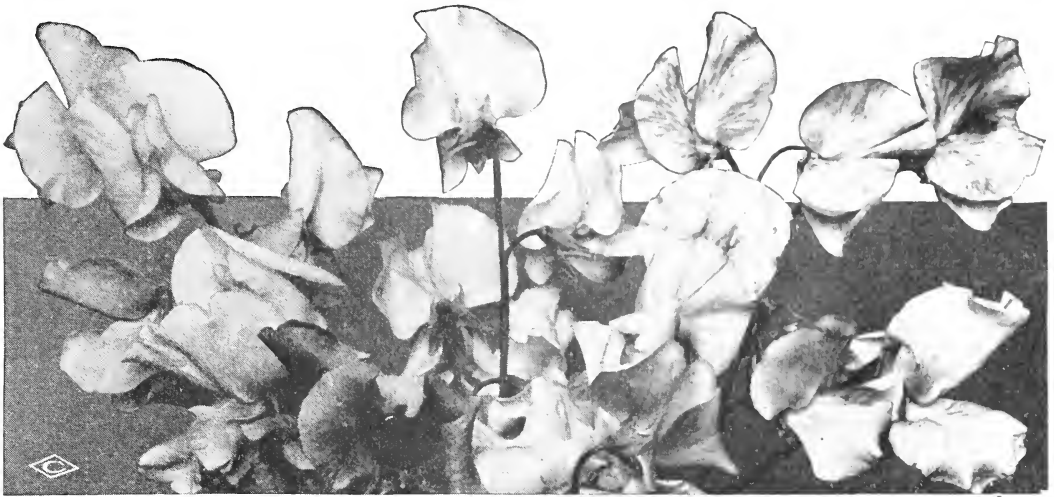
**LAVENDER GEORGE HERBERT**—A new introduction which we believe is a cross between Austin Frederick and the most perfect lavender yet introduced and Mrs. Tom Jones a delphinium blue.

**SUNKIST**—A beautiful shade of pure rich cream with a rose picotee. Vigorous grower and a very profuse bloomer.

**TANGERINE**—A deep metallic satin suffused with orange. A beautiful Spencer especially in artificial light. This should be given some protection from hot sun to bring out its true color.



Mrs. Charles Olgardt of Great Falls, Montana, is proud of her extra tall Spencer Sweet Peas produced from "X-L" Seed.



### SPECIAL OFFER

One large 10c pkt. of each of the named varieties described on page 62 postpaid for 60c. See back cover page for the true colors of this wonderful collection.

### NEW SPENCER VARIETIES FOR 1931

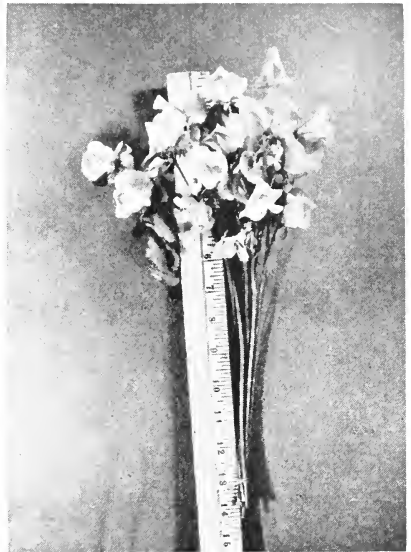
**GLENGARY**—We described it as deep velvety crimson self. The flowers are mammoth in size, very ruffled and duplexed. This new variety carries from four to five brilliant blooms on long stout stems. A very vigorous grower. A bunch of Glengary stands out "brilliant and bold" in any collection. Pkt., 25c; ½ oz., 40c; oz., 75c.

**CAMPFIRE**—This new introduction is more brilliant and brighter than any other scarlet yet introduced. Flowers are extra large on long stout stems, produces large blooms even where conditions are not entirely favorable. Not only beautiful but delightfully fragrant. Pkt., 25c; ½ oz., 30c; oz., 50c.

**PRINCE OF ORANGE**—This new variety is rightfully named as we believe it without doubt, the best orange yet developed. Color pure deep orange without any trace of yellow or red. Vigorous in habit and with large flowers which are quite sunproof. Pkt., 25c; ½ oz., 35c; oz., 60c.

### MIXTURES OF SWEET PEAS

**EARLY FLOWERING SPENCER MIXED**—A well balanced blend of the colors included in the spring flowering class. Our stock will produce flowers of all of the desirable shades and under favorable conditions they will bloom continuously for about four months. Pkt., 10c; ½ oz., 30c; oz., 50c.



"X-L" Brand Spencer Sweet Peas produce Giant Blossoms on extra long stems.

**SPENCER MIXED**—A splendid mixture of Spencer varieties grown for us by the most careful methods from proven stocks. A wide range of colors is thus assured in this comparatively new class of Sweet Peas of such remarkably large size and wonderful attractive form. Pkt., 10c; oz., 20c; ¼ lb., 55c; lb., \$1.75.

**GRAHAM & ROSS SUPERB SPENCERS MIXED**—We make up this magnificent mixture by combining fifteen separate named Spencer varieties, each of which after trials have repeatedly shown to be the very best of its class. Unsurpassed as a mixture of this superb class and showing the most desirable range of colors and the finest forms. No better mixture in all the world than this. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.60, postpaid.

### Perennial Sweet Peas

Easily grown, hardy with smaller flowers and lacking the fragrance of Sweet Peas, but producing for many weeks a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the second season but in the third and fourth, the plants then being well established, an abundance of foliage and blooms is afforded. The plants die down late in the fall and start again in the spring.

Sow the seed out doors early in spring, using well prepared soil and covering the seed about one inch deep with fine soil firmly pressed down. Pkt., 10c; ½ oz., 50c; oz., 85c.



Prize Winning "X-L" Brand Sweet Peas raised by Mrs. T. B. Carlisle of Milligan, Montana.



# PERENNIALS

## Raising Hardy Perennials From Seed

Hardy Perennials are easily grown from seed. In many cases they are a little slower than annuals, but with care they are successfully raised from seed with much less expense than buying the plants. Many perennials, if sown early in the spring will bloom the first year from seed as freely as annuals. Others wait a year; that is, if sown this year they will bloom next year. Tender, and half-hardy perennials are best sown in the spring after frost is over, that is, in May or June. Hardy perennials are sown in the late summer and early fall for the next year's flowers.

### Agrostemma Coronaria

(Rose Campion)  
Height 15 inches.

Blooms the first season from seed, producing pretty pink blossoms on long slender stems. Fine for both mass planting and bouquets. Pkt., 10c mixed.

### Bellis Perennis

(Double Daisy)  
Height 6 inches.

Charming little plants for edging and borders. The flowers are quilled and flat-petaled and come in white, red, pink and variegated. Not all will be double and the single ones should be pulled out. Tender Perennial.

LONGFELLOW—Pink, pkt., 10c.

SNOWBELL—White, pkt., 10c.

MIXED—Pkt., 10c.



Columbine grows Hardy

### Columbine

(Aquilegia  
Coerulea)  
Height 1½ to 2 feet.

The state flower of Colorado. One of the most beautiful of flowers. The colors range from light to dark blue, depending on the altitude. We gather our seed in Colorado where it to perfection. perennial. We

can also offer the yellow variety.

SINGLE MIXED—Pkt., 10c.

DOUBLE MIXED—Pkt., 10c.

ROCKY MOUNTAIN COLUMBINE—1 to 2 ft. April-July. One of the most beautiful of our native American flowers. Sepals, deep blue, petals, white. Pkt., 10c.

### Campanula

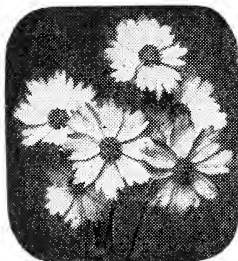
(Canterbury Bells)  
Height 1½ to 2 feet.

New uses for these old-time favorites are being found from time to time. The fine bell-shaped flowers are large enough to attract attention by themselves in a small piece and small enough to fine ready use as a filler among larger highly colored flowers. Pkt., 10c.

### Coreopsis

(Lanceolata)  
Height 2 feet.

This is a rapid growing, hardy perennial that should be in every garden. The flowers are bright yellow, very attractive and fine for cut flowers. May be grown as an annual as it blooms the first year from seed. Pkt., 10c.



Coreopsis

### Delphinium

(Perennial Larkspur)  
Height 3 to 4 feet.

A popular, hardy perennial. Seed sown early in the spring will bloom in August. They are easy to grow and can be had in almost any color. The

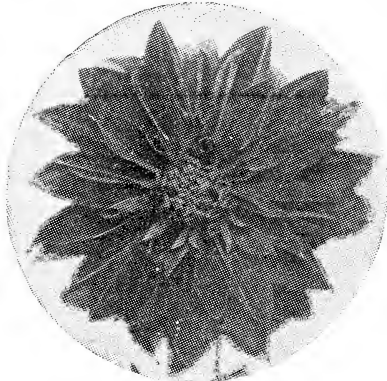
long graceful spikes of delicate shades are highly prized. Splendid for planting in groups in hardy borders and also in front of shrubbery.

BLACKMORE AND LANGDON STRAIN—It was our pleasure this summer to see these in bloom and it is a memory-picture we would like to reproduce, but words are inadequate. They had a dignity peculiarly their own—tall, graceful spikes of bloom, covered from top to bottom with captivating blooms in charming color combinations. All the clear shades of blue with many delightful opaline variations. Some made one think of the inside of sea-shells, all with bees of contrasting colors. Pkt., 25c.

### Dianthus Plumarius

Height 1 foot.

The old fashioned June, Clove, or Grass Pinks. Hardy, fine for rock gardens, old fashioned gardens or perennial borders. Pkt., 10c.



### Dahlia

Height 4 feet.

These well known flowers are commonly grown from the tubers but may also be grown from seed.

SINGLE MIXED—Pkt., 10c.

DOUBLE MIXED—Pkt., 10c.

### Feverfew

(Matricaria Capensis)

Height 3 feet.

A very free flowering border plant, bearing masses of white or yellow flowers. Well adapted for bedding and cutting. Tender perennials. Pkt., 10c.

### Foxglove

(Digitalis)

Height 3 to 5 feet.

A stately ornamental plant especially adapted for perennial borders and for planting among shrubbery. Flowers are of all colors, are bell or thimble-shaped, and borne in tall spikes. New plants may be obtained by dividing the roots. Hardy perennials. Pkt., 10c.

DOUBLE MIXED—Pkt., 10c.

GLOXINIAEFLORA WHITE — Flowers shaped and spotted like a gloxinia. 2-4 feet. June-July. Seeds, pkt., 10c.

### Forget-Me-Not

(Myosotis Alpestris)

Height 6 to 8 inches

Considered one of the best spring flowers and when grouped with pansies and daisies, the color combination obtained is truly wonderful. They grow best in moist soils. The flowers are blue. It is a perennial but should be given a slight protection in winter. Pkt., 10c.



**Hollyhocks**

Height 5 feet.

One of the oldest garden favorites and unsurpassed among the perennials for mass or clump planting, for planting among shrubs, or as a background. They require a deep rich soil. Hardy perennial. Double, in separate colors of white, pink, maroon, or mixed. Pkt., 10c.  
**DOUBLE WHITE**—Pkt., 10c.  
**YELLOW**—Pkt., 10c.  
**DOUBLE MIXED**—Pkt., 10c.



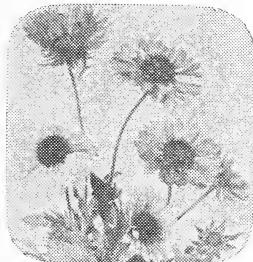
Hollyhocks

**Iceland Poppy**

(Papaver Nudicaule)

Height 1½ feet.

This plant is dwarf, neat habit, forming a tuft of bluish green fern-like foliage. Blooms practically all summer with pretty cup-shaped flowers. Pkt., 10c.



Gaillardia

**Gaillardia**

(Blanket Flower)

Height 1½ feet.

A splendid showy perennial, well adapted to mixed borders and are very satisfactory as cut flowers. The stems are good length, carry the flowers well. They should be sown where they are to bloom. Pkt., 10c.

**LORENZIANA DOUBLE PERFECTION MIXED**—Height 20 inches. Large, hand-

some heads of double quilled flowers in rich shades of red and yellow. Pkt., 10c.

**Geranium**

Height 1 to 2 feet. (A)

These grow readily from seed the first year and produce blooming plants the first summer. There is a great deal of pleasure in watching them develop from seed, and there is always the chance of thus securing something new.

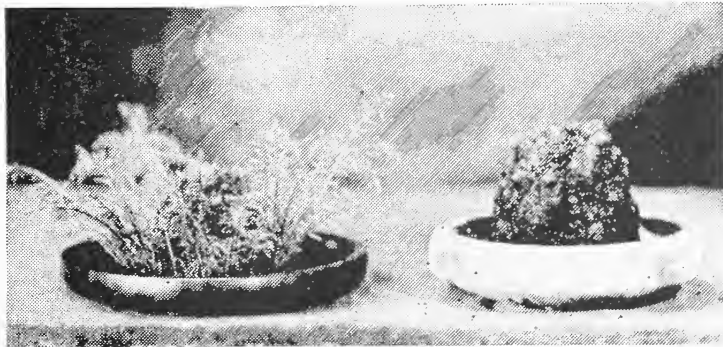
**ZONAL VARIETIES**—Saved from a choice collection. Pkt., 10c.

**Gypsophila**

(Baby's Breath)

Height 18 inches

Delicate stems and foliage in rounded clumps; profusely sprinkled with tiny star-blossoms. These misty panicles are exquisite "mixers" with other flowers, either in bouquets or in the garden.



Burhls, after being placed in water.

Burhls, before watering.

**PANICULATA**—Hardy perennial. Height 2 feet. Flowers white, with a general impression of being lavender, when in bud. Pkt., 10c.

**Oriental Poppy**

(Papaver Orientale)

Height 2 to 3 feet.

For brilliancy of color there is nothing that quite equals the Oriental Poppy. The flowers are of enormous size, often 6 inches in diameter and the colors range from soft pink to dazzling scarlet and deep maroon. Especially adapted to mass planting and in hardy borders with shrubs, and other perennials. Pkt., 10c.

**Perennial Phlox**

Height 12 inches.

For permanent beds in the garden, and borders. Bear immense flowers. Pkt., 10c.

**Shasta Daisy**

Height 15 to 18 inches.

This ever popular hardy daisy can be used for a number of things. It will succeed most anywhere. Fine when planted in the old fashioned garden, and valuable as a cut flower. Pkt., 15c.

**Sweet William**

(Dianthus Barbatus)

Height 1 foot.

There is no need to describe this plant since it is so well known. It does not flower until the second year from seed, but this type commences blooming in early summer and continues to flower for several weeks. The flowers are produced in great profusion on large heads. Pkt., 10c.

**Tritoma**

(Red Hot Poker)

Height 40 inches.

A beautiful showy border plant, producing handsome red or orange colored flowers on long stens. No other plant will produce such an abundance of blooms as the Tritoma. This flower is a rare beauty and will more than repay you for the little trouble it may cause. Pkt., 10c.

**Violet**

Height 5 inches.

No garden is complete without them. They bloom sooner than most other flowers and their fragrance is delightful. They will thrive in shady places and therefore can be planted where other plants will not do well. A violet bed around the foot of a big shade tree is very attractive. Pkt., 10c.

**Wallflower**

Height 18 inches.

A favorite garden flower. The long fragrant spikes are very beautiful in beds and borders and useful in making bouquets. The coloring runs mainly to rich yellow, orange, and purple, and is oriental in effect.

**DOUBLE**—Pkt., 15c.**SINGLE**—Pkt., 10c.

Fine for indoor culture.

**Redwood Burhls**

A new novelty that has become very popular for indoor decorating. These Burhls are cut from the Giant Redwoods of California. Simply place in a shallow bowl or dish of water. They soon commence to grow and form an attractive fern-like appearance. Last indefinitely. Full directions for growing furnished with each Burhl.

Size Price Postpaid

2 oz. to 5 oz.	.....\$0.35
5 oz. to 8 oz.	..... .65
1½ lbs. to 2 lbs.	..... 1.00
2 lbs. to 4 lbs.	..... 1.50

# FLOWER PLANTS

## PERENNIALS AND ANNUALS

All prices postpaid. Prices of the following plants except where otherwise noted:  
Three-inch pot, 30c; 4-inch pot, 45c; strong 2-year clump, \$1.00; 3-year-old clump, \$1.50

**ACHILLEA**—Called the Pearl. Height 2 ft. Blooms very early and keeps well after cutting.

**ANCHUSA** (*Italica Dropmore*)—One of the finest blue plants we know. Very free flowering and a continuous bloomer from June on. Height 3 to 4 ft.

**ANTHEMIS** (*Golden Marguerite*)—Blooms from July until Fall. Color golden yellow. Flowers hardy and sweet-scented.

**AQUILEGIA** (*Columbine*)—Height 2 ft. Blooms one of the best of perennials on account of extreme hardiness, ease of growing, keeping qualities after cutting and use for bedding purposes. We have the Mrs. Scott Elliott strain of Long Spurred varieties which has been proven the super-fine strain for long spikes.

**ASTERS**—Immense size, with very large wavy twisted petals formed into a dense half globe. Very hardy and popular.

**BLEEDING HEART**—Will grow in shady or sunny locations but blooms more freely when given plenty of sun. Plants, each 75c; large 2-year clumps, each \$2.00.

**CAMPANULA** (*Canterbury Bell*)—One of the finest plants for border use. Excels in rich soil and half shady location. Can be furnished in rose, white, blue or mixed colors.

**CAMPANULA** (*Pyramidalis*)—Called the Chimney Bell Flower. Grows from 3 to 5 feet. Flowers blue, salver-shaped.

**CARNATIONS**—A great favorite for ease of growing and exquisite fragrance. Mixed colors. Pure red, each 75c.

**CERASTIUM** (*Snow in Summer*)—4 in. Silvery white foliage, covered with snow-white flowers in early summer.

**COREOPSIS, GOLDEN SUNBEAMS**—One of the most beautiful hardy perennial plants in existence. Grows 15 to 18 inches high and produces in great profusion all summer long large Marguerite-like flowers of a deep golden yellow color. Flowers produced on long wiry stems and very lasting making them especially adapted for cutting.

**DELPHINIUM** (*Perennial Larkspur*)—Few plants are so handsome in the garden as the perennial Larkspur. There are many species in cultivation, but the most important are the tall hybrids, of which there are many varieties with a wonderful range of color. They are valuable for their great variety in shades of color, varying from the palest lavender through every conceivable shade of blue to deep indigo. They thrive in almost any situation or soil and are easily increased, being perfectly hardy. A good deep rich soil will repay with larger and better flowers. Remove the flowers before the seed pods form and they will flower later in season again.

**DIANTHUS** (*Pinks*)—Can be furnished in white, yellow, red or mixed colors. Very hardy and free blooming. One of the favorite for borders.

**DIGITALIS** (*Foxgloves*)—Height 4 to 5 ft., fine for the garden background. A beautiful shade of flower with luxuriant foliage.

**FORGET-ME-NOT** (*Myosotis*)—A dainty blue flower, very hardy.

**GAILLARDIA** (*Blanket Flower*)—One of the most popular flowers for cutting. Very hardy and easily grown.

**GOLDEN GLOW**—Height 6 ft. A very large, double and Dahlia-like flower. Blooms from July until September.

**GYSOPHILIA** (*Baby's Breath*)—A valuable border plant. Flowers very minute in attractive masses. Can be cut and dried.

**HESPERIS MATRONALIS** (*Sweet Rocket—Evening Scented Stock*)—Deliciously sweet-scented flowers for garden or cutting. 2-3 ft. June-August.

**HIBISCUS**—Height 5 ft. Succeeds especially well in damp places.

**HOLLYHOCK**—Height 4 to 5 ft. Ideal for background planting. Flowers double.

**IRIS**—No flower surpasses the Iris in delicacy of texture and color or is more showy. Thrives in almost any soil. Plant in the fall to obtain best results.

**LILY OF THE VALLEY**—Height 6 in. Fine for border planting. Delicate white flowers, very sweet scented. Should be planted in the shade. Each 10c; per doz., \$1.00.

**LILY, TIGER**—Very hardy, succeeds anywhere. Flowers very large, orange and black.

**ORIENTAL POPPIES**—Height 2 ft. Flower a beautiful shade of deep scarlet, often 6 inches across. Blooms the largest of any of the perennials.

**PHLOX**—Among the hardy perennials there are none more showy than this wonderful flower. Very hardy and easy to grow. Should not be disturbed after planting for 3 to 4 years, when they should be dug and the clumps that have formed separated. Will withstand extremes of both heat and cold.

**Elizabeth Campbell**—A light salmon.

**Rheinlander**—A rare shade of salmon pink with a distinct claret-red eye. One of the newer varieties and a beauty.

**The Bridesmaid**—A beautiful shade of carmine pink.

**Miss Lingard**—We consider this the best white. Very early, blooms two weeks ahead of any other variety. Fine for cutting.

**Chas. Seibold**—A pure deep red, flowers very large. A tall and robust grower.

Mixed—Best varieties.

**PHYSALIS** (*Franchetti*) (*Chinese Lantern Plant*)—1½ ft. Flowers yellow with dark center. Produces balloon-like husks the second year from seed, which turn bright red when ripe and resemble Chinese lanterns.

**PYRETHRUM**—One of the best for cutting as the flowers will last a week in good condition. Will thrive under most any condition. Furnished in pink, white, rose, yellow or mixed.

**RAGGED ROBIN**—Height 2 ft. A scarlet flower borne most profusely. Blooms commencing in June. A showy flower in any garden.

**SHASTA DAISY**—No description of this wonderful perennial is needed. Foliage a dark green covered with flower stems bearing pure white flowers.

## ANNUAL FLOWERS

Prices: 2-inch pot, 75c per doz; 3-inch pot, \$1.25 per doz.

We can furnish the following annual flowers in potted plants ready to set out. You are assured early blooms of the most striking colors. Asters, Snap Dragons, Calendula, Dianthus or Pinks, Sultana, Lobelia, Forget-Me-Nots, Marigolds, Petunias, Salvia, Verbena, Vinca, Marguerites and Zinnias.

**NOTICE**—We can furnish Asters and Zinnias in ten distinct colors. In ordering specify colors you desire.

## Hanging Baskets—Window Boxes

We have experts who can make the proper arrangements in order to secure the most striking appearance. Price of stock for your window box ranges from 75c to \$2.00 per running foot. All stock for window boxes will be 3 in. potted plants with directions for planting and arrangement of same furnished.

## Resurrection Plants

Are truly named and one of the most interesting plants there is to watch. They resemble brown bunches of cedar leaves but when placed in water they almost immediately become a dark green, bushy plant. They then may be taken out of the water and will return to their former condition. They may be "planted" and dried for years without killing them. Price, 2 plants for 35c, postpaid.

## Winter Blooming Cactus

We can furnish all of the popular varieties of cactus in three and four inch pots. They make an ideal house plant as they bloom during the winter when flowers are appreciated. Plant in a pot of soil preferably sand, using a small amount of bone meal as fertilizer, and watering but once every four or five weeks. Each \$1.00, postpaid.

## VINES FROM SEEDS

### Balloon Vine

(Love-in-a-Puff) (A)

A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 10c; oz., 40c.

### Beans

(Scarlet Runners) (A)

A great favorite, not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c; 1/4 lb., 20c; 1/2 lb., 35c; lb., 60c.

### Bean Hyacinth

(Australian Pea Vine) (Dolichos) (A)

This really beautiful climbing plant is of quick growth. Foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. The shining purple seed-pods are also very ornamental. Tender annual, growing six to eight feet. Seed should be sown where plants are desired, in as warm and dry a spot as possible. Mixed, pkt., 10c; oz., 25c.

### Boston or Japanese Ivy

(Ampelopsis Veitchii) (P)

A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, out-houses, etc. Height 50 feet. Pkt., 10c; oz., 50c.

### Canary Bird Vine (P)

A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c.

### Cardinal Climber (A)

This is a great favorite amongst climbers and attains a height of 15 feet. The leaves resemble those of a fine Japanese maple and completely cover the vines. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 10c.

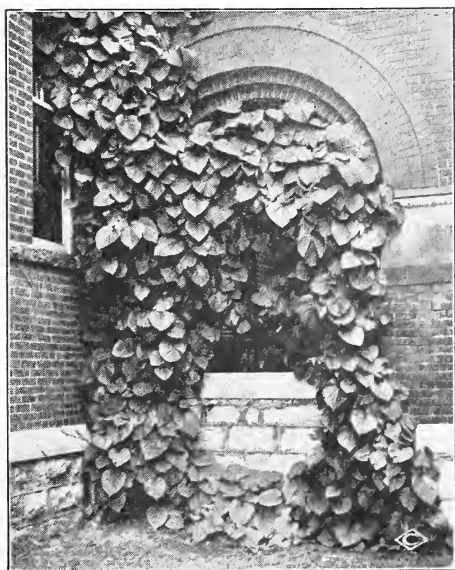
### Cypress Vine

(Ipomoea Quamoclit) (A)

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; oz., 25c.

### Coboea Scandens (A)

One of the handsomest and most rapid growing of the annual climbers. It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c.



Kudzu

### Japanese Kudzu Vine (A)

The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy; fine for arbors, verandas, etc. Pkt., 10c.

### Gourds

(20 ft.) (A)

These are desirable in many places where an immense amount of vine is wanted quickly. The blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls. Mixed varieties. Pkt., 10c; 1/2 oz., 20c; 1 oz., 30c.

### Wild Cucumber

**ECHINOCYSTIS LOBATA**—This is the quickest growing climber on our list. Grows wild, self-sown, in many parts of the west. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. 1/4 lb., 75c; 1 oz., 25c; 1/2 oz., 15c; pkt., 10c.

### Japanese Hop

(Humulus) (A)

Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Pkt., 10c.

### Bignonia Radicans

(Trumpet Vine)

A robust tall climber with great leathery trumpet-shaped flowers of brilliant orange-scarlet which last a long time in the summer. A very rapid and hardy grower. Useful for covering unsightly places, stumps, or wherever a showy flowering vine is desired. Pkt., 10c.

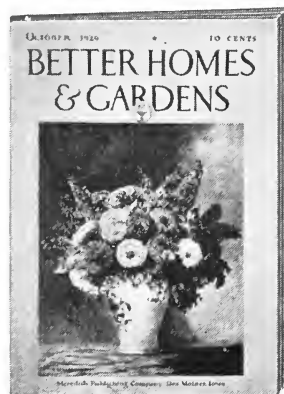
### Morning Glories

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. Hardy. Seed is usually sown outdoors early in spring in row where plants are to remain. Well pulverized soil should be used and the seed covered one-half inch deep; thin four to six inches apart. If very early blooming is desired, seed may be started indoors and transplanted. Give some support such as strings or cord to the vines as soon as they begin to run and they will often exceed ten feet in height before the season is over.

**MORNING GLORY (A)** (*Convolvulus Major Ipomoea Purpurea*)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 10c; oz., 35c.

### "Better Homes and Gardens"

No home owner can afford to be without this magazine. We have been a subscriber for this wonderful magazine for the past three years and do not hesitate to recommend it to each of our customers. Each issue is filled with useful information pertaining to the home and garden. We shall be pleased to obtain a subscription for you under the following rate: Per year, 60c; two years, \$1.00. Issued monthly. Send your subscription along with your seed order.



See Nursery Section for Started Vine Plants.

# SPRING FLOWERING BULBS

## GLADIOLI—Finest Flowers for Cutting



Mrs. Frank Pendleton

We offer varieties of proven worth only.

This class of summer-flowering bulbs is doubly valuable for the field show of bloom, and for its cut-flowers. Gladiolus flowers last longer when cut than most any others, and open up best in water. Bulbs should be planted between April and May throughout the Northern States, followed by a second planting after two or three weeks for succession. Set bulbs 2 to 4 inches deep and 2 inches apart in the drills, single rows 12 inches, and double rows 18 inches apart. Beds do well planted 4 to 6 inches apart each way.

### AMERICA —

Beautiful, soft flesh-pink, faintly tinged with lavender. 3 for 15c; 6 for 25c; 1 dozen, 45c.

### JOE COLEMAN

—A bright rich red with darker blotches in throat of lower petals. Many flowers open

at a time; tall spikes, a strong grower and good propagator. Beautifully ruffled and very popular. 3 for 25c; 6 for 45c; dozen, 75c.

**MRS. FRANCIS KING**—Large size, brilliant vermilion scarlet. A most popular and effective variety for all occasions. 3 for 20c; 6 for 35c; dozen, 60c.

**HERADA**—Blooms of immense size on tall straight spikes, massive in every way. The blooms are pure mauve, glistening and clear. An entirely new color in Gladioli. Unusually striking and attractive. 3 for 20c; 6 for 35c; dozen, 60c.

**MARY PICKFORD**—Delicate creamy white with throat of finest sulphur yellow. Stem also cream instead of green, giving the whole a unique appearance. 3 for 20c; 6 for 35c; dozen, 60c.

**MRS. FRANK PENDLETON, JR.**—Large and well expanded, of a lovely flushed salmon-pink, with blood-red blotches in the throat. 3 for 18c; 6 for 30c; dozen, 55c.

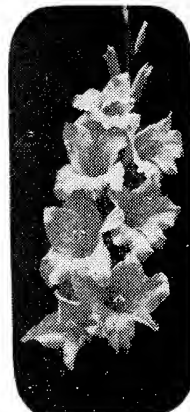
**PRINCE OF WALES**—Beautiful salmon-orange, flowers large and well placed; an early flowering sort. 3 for 20c; 6 for 35c; dozen, 60c.

**ROSE ASH**—Ashes of roses—the color that has attracted the attention of everyone who has seen it; flowers very large and spikes tall and strong, blooms well set on the spikes. This variety has a great future. 3 for 25c; 6 for 40c; dozen, 75c.

**SCHWABEN**—The largest yellow gladioli. Pure canary yellow shading to soft sulphur yellow, with a touch of red in the throat. A tall vigorous grower with very large open flowers. 3 for 20c; 6 for 35c; dozen, 60c.



Mrs. Francis King



Schwabens

## Graham & Ross Special Gladioli Mixture

50 bulbs for \$1.00; postpaid, \$1.10. All bulbs in this mixture are blooming size and from named variety. At this extremely low price no garden is complete without several hundred of these beautiful flowers. No order for less than fifty accepted.

## Our Own "X-L" Gladioli Mixture

Gladioli mixtures can be purchased at almost any price and under almost any name, and it is a difficult matter for the purchaser to decide which is best. We have prepared this mixture for those that wish the best possible in Gladioli. Nothing but the newest named varieties have been placed in this mixture. The majority of our nursery customers, who take a pride in beautiful grounds plant this mixture and the increased demand each year, shows that our judgment in preparing this mixture has been right. You will find a wide variety of the newest colors so blended that your Gladioli bed will be the envy of your neighbors.

Price, per doz., 60c; \$4.50 per 100, postpaid. (No Order for less than one dozen accepted.)

## "Gladiolus"

By F. F. Rockwell.

Recommended as "the best brief guide on gladiolus growing." It tells how to plant, fertilize, and cultivate; how to grow from seed or bulbets; how to harvest and cure; how to handle for cut flowers; and every other detail needed for success with this popular flower. 45 illustrations, 79 pages, \$1.00.

Sent free as a premium with an order for \$10.00 worth of bulbs from this catalog at single or dozen rates, if asked for at time of ordering.



**SEMESAN BEL**  
Makes Seed Potatoes Healthy

and Invigorates  
**BULBS**

Semesan controls and prevents infection by the common diseases to which bulbs and flowers are subject. Easy to use either as a dust or liquid. Harmless to the most delicate seed yet deadly to fungous and disease parasites. Keeps your plantings disease-free, increases germination and produces better stands and finer blooms.

Prices, add postage: 2 oz., 50c; 8 oz., \$1.60; 1 lb., \$2.75; 5 lbs., \$13.00; 25 lbs., \$62.50; 50 lbs., \$122.50.

## NEW DAHLIA INTRODUCTIONS

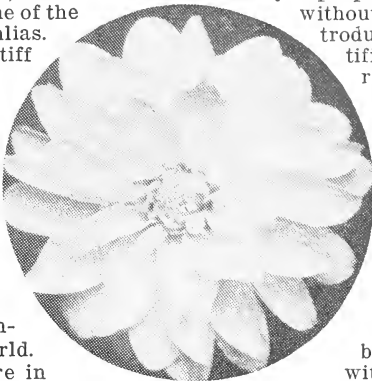
**City of Trenton (D)**—A dahlia of immense size with face of pure tangerine and the reverse of petals a crushed strawberry color. A very distinct and attractive dahlia. Each, \$3.00.

**Dorothy Castle (D)**—A golden cream with a border of pure apricot. Each, 75c.

**Golden Emblem (H D)**—One of the largest of bright yellow dahlias. Flowers borne on long stiff stems. Each, \$1.00.

**Heart of Gold (D)**—A new variety that is destined to become very popular. The center of each flower is a pure yellow and shading to flesh or pale yellow on the outside of each petal. Each, \$1.25.

**Jane Cowl (D)**—This new dahlia was awarded a certificate of merit. One of the sensations of the dahlia world. Flowers are 10 inches or more in



diameter, with a distinct color—Chinese red orange shading to a pure peach red. Each, \$5.00.

**Kemp's Violet Wonder (D)**—A new introduction and one of the largest produced. Color a rich naphthaline violet with underlying tones of royal purple. No dahlia garden is complete without this new flower. This new introduction has been awarded the certificate of merit and placed on the roll of honor for all new dahlias. Each, \$5.00.

**Margaret Woodrow Wilson (D)**—This new introduction has received a certificate of merit for the best opalescence pink yet introduced. Each, \$1.00.

**Tommy Atkins (H C)**—Due to the wonderful progress made in dahlia culture, new distinct varieties such as Tommy Atkins may now be obtained by all. A flower of deep scarlet red with distinct form. Each, 75c.

## A Dahlia Expert Selects All Stock

We are pleased to announce to our customers that we have made arrangements with Mrs. H. Wilkenson, one of the foremost Dahlia growers in the state to select all stock, cultivate and supervise all Dahlias sold by us. We feel that with the expert knowledge of Mrs. Wilkenson, that our customers are assured the best in Dahlias. You will note that we are listing many new varieties for the first time and that all old or common varieties have been discontinued. We also ask our customers to compare these prices with any of the foremost Eastern Dahlia growers.

Abbreviations: Decorative (D), Show (S), Cactus (C).

Prices: All prices quoted are postpaid your station and for strong, healthy roots. If you wish Dahlias started in individual boxes, add 15 per cent to quoted price.

**A. D. LIVONI (S)**—Beautiful soft lustrous pink. A Dahlia that has never been surpassed in shape and perfection. Each 50c.

**BASHFUL GIANT (D)**—One of the largest flower Dahlias yet introduced. A deep apricot shaded with gold. Each 75c.

**CATHERINE WILCOX (Ball)**—A pleasing contrast to the Cuban Queen, being a ball Dahlia with predominating color white with red edge on each petal. Price, each 40c.

**CUBAN QUEEN (Ball)**—An attraction in any garden. Color pure yellow with a red edge on each petal. Price, each 50c.

**ELEANOR MARTIN (D)**—One of the most persistent bloomers of all Dahlias, and in addition grows on large stiff stems which is an advantage in that the wind cannot damage them. Color, rose shaded with a violet reverse on each petal. Each, \$1.00.

**F. W. FELLOWS**—Flowers of immense size composed of numerous long, narrow incurved petals of lively orange scarlet. Each 65c.

**JEAN KERR (D)**—One of the free bloomers. A good keeper and profuse bloomer. Color pure white. Each 60c.

**JERSEY'S BEACON (D)**—The color is Chinese Scarlet with a paler reverse giving a two-toned effect. Flowers very large and globular in form. A prolific bloomer and vigorous grower. Stems stiff enough to hold flowers erect. Each \$1.50.

**JUDGE MAREAN (D)**—Large flower, free bloomer; salmon pink with orange and gold, shading. Each \$1.00.

**KITTY DUNLAP (D)**—A beautiful color of rose pink. Flowers very large. Each 60c.

**MILLIONAIRE (D)**—This new introduction is properly named as it makes any garden look like a million dollars. A wonderful bloomer of extra large flowers. Color, pale red. Each 50c.

**MIXED DAHLIAS**—In digging and sorting our named varieties some become mixed and we offer these at the following prices. Each 15c; per doz., \$1.50.

**MRS. I DE VER WARNER (D)**—Of immense size on long stiff stems, making it ideal for cutting. Color mauve pink. Each \$1.00. This variety took first place at the Great Falls 1930 Flower Show.

**WODAN (C)**—A profuse bloomer and good keeper. Color pink and orange. Each 60c.

**POP STEWART (D)**—One of the larger flowers in the Dahlia family. A wonderful bloomer and good keeper. Color, pure lilac pink. Each \$1.00.



## CANNAS

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure, by the end of May, when danger of frost is past. Water sparingly for first two weeks after planting. When growing freely water liberally. They are quick growers and bloom continuously until frost.

**YELLOW KING HUMBERT**—A marvelous variety, bearing large trusses of beautiful flowers in greatest profusion from early until late. Flowers deep, rich yellow spotted with bright red.

**RED KING HUMBERT**—4 to 5 ft. Bronze foliage. This is one of the most popular varieties. Very large orchid flowers of brilliant orange red, broad rounded petals.

**AMBASSADOR**—3½ to 4 ft. Bronze foliage; color poppy red; very brilliant flowers are borne in immense trusses on strong stalks well above the foliage; petals measuring from 2 to 2½ inches across. Plant is very vigorous.

**PRICE OF THE ABOVE CANNAS**—Each 20c; doz., \$1.90, postpaid; not prepaid, each, 15c; doz., \$1.75.

**SPECIAL COLLECTION OF CANNAS**—Four of each of the above varieties, one dozen in all, \$1.70, postpaid your station.



## HEDGES

**BUCKTHORN**—A dense bush 6 to 10 feet high with dark foliage relieved by masses of attractive white flowers in June and July, makes a good prunable hedge. 18 to 24 inches. Each, 25c; doz., \$2.50; 100, \$17.50.

**CARAGANA**—Also known as Serbian Pea Tree. An extremely hardy variety with beautiful foliage and bright yellow pea-shaped flowers. Noted as a great drought resister, and recommended to our farmers for wind-break purposes, also as a specimen tree or shrub planting. 18 to 24 inches. Each, 20c; per doz., \$1.80; 50, \$6.00; 100, \$12.00.



Clematis

**HONEYSUCKLE (Pink Tartarian)**—Description under shrub section. Size 18 to 24 inches. Each, 25c; doz., \$2.50; 50, \$7.50; 100, \$12.00.

**JAPANESE BARBERRY**—Description found under shrub section. Size 15 to 18 inches. Each, 50c; doz., \$4.50; 50, \$12.50; 100, \$20.00.

**RUSSIAN OLIVE**—A very fast grower, and succeeds exceedingly well in dry sections. Makes a splendid protected hedge as no one will attempt to go through it, standing pruning well. 18 to 24 inches. Each, 15c; per doz., \$1.20; 50, \$5.00; 100, \$9.00.



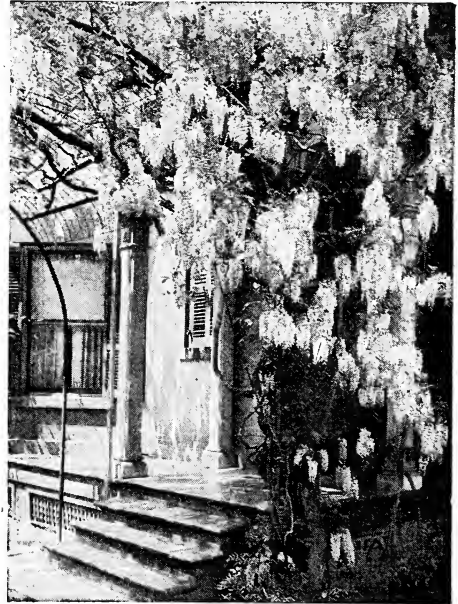
Russian Olive

## HARDY ORNAMENTAL VINES

**CLEMATIS JACKMANI**—The most beautiful flowering climber for the north. Blooms four inches in diameter and a deep purple, succeeds well in rich soil and plenty of sun, furnished potted for easy transplanting. Each \$1.50.

**CINNAMON**—This climber is properly named as it gives off a delicious cinnamon odor. Very hardy, the stem dying down every autumn but growing again so rapidly as to cover any trellis early in the season. One year old, each, 15c; per doz., \$1.50.

**BOSTON IVY**—This is one of the finest hardy climbers we have for covering walls, as it clings firmly to the smoothest surface, color deep green in summer changing to the brightest shades of crimson and yellow in autumn. Two year old plants, \$1.00 each.



Wisteria

**KUDUZ OF VINE**—Large foliage and dense shade, growing as far as 50 feet in one season. We recommend winter protection for this vine. Two-year-old plants, each, 50c.

**MADERIA VINE**—Sometimes called the Mignonette Vine. It is of rapid growth and is fine for porches and outdoor hanging boxes. Perennial, but take up roots in fall as the plant will not endure frost. One-year-old plant, 15c, each; per doz., \$1.50.

**VIRGINIA CREEPER**—Fine for covering trees, rocky slopes, walls, etc., foliage a rich dark green which turns to a beautiful yellow or crimson in the fall. Large plants, each, 50c.

**WISTERIA**—One of the handsomest subjects for use on porches and trellis with attractive foliage and magnificent dense drooping clusters of blue flowers hanging in panicles about 12 inches long. Large plants, each, \$1.00.





## A FLOWER EVERYONE LOVES

*Graham & Ross Hardy Field Grown Roses Are Easy to Grow and Will Give You Bountiful Crop*

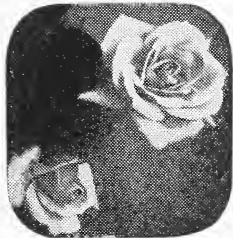
**PLANTING**—In preparing a rose bed select a sunny location guarded from cold north winds if possible, dig out the beds to a depth of 2 to 3 feet and then refill to a level with the turf, with a mixture of soil and fertilizer, making provision for good drainage if location is not naturally drained. Plant the rows about two inches deeper than it stood while in the nursery, being careful that the graft is at least two inches below the surface.

### STANDARD ROSES

#### That Will Blossom the First Year

**PRAIRIE KING**—The easiest rose to grow, extremely free flowering with intense depth and richness of color, its color of crimson red and redish green stems and foliage makes it one of the showiest garden types. Two-year-old plants, each, \$1.25; 3 for \$3.00.

**LOS ANGELES**—One of the grandest all-round roses ever put on the market, flowers large and continuous in color, a flame pink, toned with coral and shaded with gold at the base of the petals. Each, \$1.50.



Prairie King

**HARRISON YELLOW**—Bright golden-yellow, free bloomer and by far the hardest yellow rose. Each, \$1.25.

**PAUL NEYRON**—One of the finest hardy roses ever grown, blooms from June to November on long smooth thornless stems furnishing a vast quantity of flowers four to six inches across, color a bright ruddy pink, each \$1.25.

**PINK RADIUS**—Extra hardy and vigorous. One of the best all-round garden roses. Its color is a beautiful blending of carmen rose with shades of opal and copper. Each, \$1.50.

**RED RADIUS**—It has flowers of the same exquisite form and same sweet perfume as the pink but is without doubt one of the best of all red varieties. A remarkable bloomer being constantly in flower from early spring until freezing weather. Each, \$1.50.



Climbing American Beauty

leathery foliage and the exquisite coloring of its beautiful formed buds and flowers. The color is a delicate salmon, petals prettily edged with rose while the center of the flower is a rich mingling of orange and copper shades. Each, \$1.50.

**GRAHAM ROSS ROSE SPECIAL**—One of each of the above eight named varieties for \$10.00, postpaid; regular price if ordered separately, \$11.00.

### Climbing Roses

**PAUL'S SCARLET CLIMBER**—Winner of gold medal as best new climbing rose. Flowers are scarlet, shaded crimson; large semi-double, blooms very long, a wonderful rose for trellis or pergola use. Two-year-old plants, \$1.50.

**CLIMBING PRAIRIE KING**—Carries the same general characteristics as the dwarf Prairie King but has the advantages of being a climber. Each, \$1.50.

**CLIMBING AMERICAN BEAUTY**—This climbing form of the famous pink rose so long the American favorite for cutting is as lovely and fragrant and deeply pink as the bush form. A continuous bloomer, vigorous climber and extremely hardy. Each, 1.50.

### Baby Rambler Roses

Called Baby Ramblers on account of their short close growth as compared with the trellis climbers. Most sorts grow 15 to 18 inches in height and are shapely little bushes entirely covered with bloom.

**CRIMSON BABY RAMBLER**—A dwarf form of the crimson climber with deep crimson clusters of bloom flushed with carmine. Each, \$1.25.



Crimson Rambler

### Do You Grow Roses?

*Here is the latest practical information*

## HOW TO GROW ROSES

*By Pyle, McFarland and Stevens*

Every step in growing roses successfully is made clear in this new "how-to-do-it" book. It answers every possible question and gives you the cream of three famous growers' lifetime experience.

The 138 illustrations are the most complete and beautiful in any rose book. 80 of them show actual growing operations; 45 others show leading varieties in full natural colors.

**\$2.00** from

**Graham & Ross**

### Climbing Rose Special

One strong two-year-old field grown plant of the three climbers listed, regular price \$4.50; postpaid to your station, \$3.75.



A visit to our Pet and Seed Department will prove interesting and educational.

## PETS and SUPPLIES

The same careful attention is given to your order for pets or pet supplies as is accorded for merchandise from other departments. We carry only standard brands of merchandise and sell only articles that we have tested and which have proven to be satisfactory.

### Live Pets



*Like a  
Singing  
Sunbeam  
with a*

**DOUBLE GUARANTEE**  
to **SING**  
**Canaries**

**GUARANTEE**—With each canary sold we furnish a written guarantee, which enables the purchaser, if not satisfied with his bird, to exchange it for another. All birds are in strong, healthy condition when shipped.

**GERMAN ROLLERS**—Imported direct from the Hartz Mountains. Specify whether you prefer an all yellow bird, a mottled one, or a dark one. Price each \$10.00.

**CHOPPERS**—Choppers do not roll their song but sing with shorter and louder notes. These are the birds that you hear singing over KFBB. Price each \$12.00.

**FEMALE BIRDS**—Rollers or Choppers, imported direct from Germany. Price each \$3.00.

### Love Birds

These beautiful Parrakeets have a chirping song and make wonderful pets because of the ease with which they may be tamed. Their peculiar antics and the tricks which they may be taught will amuse young and old. They are the prettiest of all cage birds. Green, \$10.00 per pair; Yellow, \$15.00 per pair; Blue, \$18.00 per pair.

### Parrots

If you are interested in obtaining young parrots that are guaranteed to talk, or parrots already talking, write for quotations.

### Dogs and Supplies

We are agents for a number of reliable kennels and can furnish most any breed of dog. Please advise quality, breed and sex of dog that you are interested in and we will quote you immediately.

### Other Live Pets

We usually have a supply of guinea pigs, white rats, white mice, turtles and other pets on hand. Let us know what you want. We buy all kinds of pets except birds. If you have anything for sale give us a description and your lowest price.



**B-K**—We use B-K at the rate of one tablespoon to each gallon of water, for bathing our animals and birds and for spraying roosts, cages, kennels, etc., to kill disease germs and eliminate disagreeable odors. 10 oz., 65c, postpaid.

## Shipping Pets

All birds and live stock should be shipped by Express. In case of accident or poor delivery, claim should be filed with the Express Company at once.



No. 274

## Bird Cages

We handle Hendryx bird cages exclusively. This line of cages is recognized as the last word in perfection. We have an assortment of over seventy-five different cages and stands. Limited space permits us to list only a few of the more popular styles.

## Brass Dome Cages

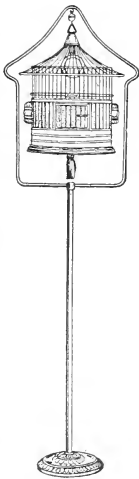
No. 274—10¼ in. dia., 14½ in. high.....\$3.15  
No. 275—11 in. dia., 16 in. high..... 4.00  
No. 276—12 in. dia., 16½ in. high..... 4.75

All brass, with guards to prevent seed from scattering; has opal seed cups.



No. S5275

No. S-5275 — Cage and Stand outfit in three pleasing color schemes of green, blue or red. A large roomy cage that your bird will enjoy singing in. Cage has drawer base and is equipped with unbreakable cups. Outfit complete \$6.35.



No. S2050

No. S-2050 — A new style of brass cage that has drawer base to facilitate cleaning. Unbreakable cups, screen guard, patented hooks and many other features found only in the Hendryx cage. Finished with Duco in the following colors. Polished brass; red and black; apple green and gold; tangerine and ivory. \$13.95 complete.

If you want a cage or stand and do not find any listed here that interest you, write us for prices and pictures of those which we have on hand. Other styles of cages \$2.50 to \$26.75.

## BIRD CAGE ACCESSORIES

(All Prices Quoted are Postpaid)

### Seed Cups

No. 1908—Heavy Opal Cup, 15c each.

No. 1928—Non-breakable Pyro-line Cup, furnished in ivory, red, blue or green colors. 25c each.

### Treat Cups

For feeding song food, color food, etc. 10c each.



## Bird Cage Hook

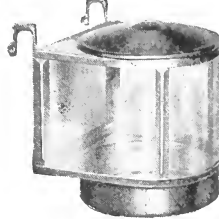
For suspending cages against the wall, extra heavy wire, brass plated. When cage is not hanging on it, hook swings back against the wall. Style O, each 10 inches long, 20c.

## Opal Bird Baths

To fit in cages. Made of unbreakable glass, moulded in one piece. Each 35c.

## Birdee Baths

A new style unbreakable bath that fits inside the cage. Furnished in buff, green, red or blue color. Each 40c.



## Delta Bird Bath

The new modern washable bird bath which hangs on the outside of door. Birds enjoy bathing in them. Fits any cage. Satin brass, \$1.35; White Enamel, \$1.00.

## Canary Perches

Give length and state whether for round or square cage. Made of seasoned birch and tapered to fit birds' feet. Each 10c.

## Cage Swings

To fit any size cage. Each 10c.

## Bird Nests

Mite-proof nests of tinned wire with special clamps. Each 20c.

## Parrot Perches

Made of seasoned birch. Give length wanted. Each 35c.

## BIRD FOODS

(Postpaid Prices)



## "X-L" Brand Bird Seed

A balanced mixture which we use for our own canaries. Formulated to keep canaries in good health and perfect song. Each package contains a piece of cuttle bone. 16 oz. pkg., 30c; In bulk, 4 lbs., for \$1.00.



### "X-L" Love Bird Mixture

A mixture for Love Birds and Parakeets only. Keeps them in good health. 30c.

### Spratt's Roller Canary Mixture

15 oz. pkg., 35c.

### Max Geisler Mixed Bird Seed

Per pkg., 30c.

### French's Mixed Bird Seed

10 oz. pkg., 25c.; 2 pkgs., 40c.

### Kaempfer's Roller Mixture

16 oz. pkg., 30c.



### "X-L" Brand Pepo

The tonic song food which we use for our canaries. Keeps the birds in good health. Feed one teaspoonful twice a week. 4 oz. pkg., 25c.

### Spratt's Song Restorer

A tonic food to be fed regularly to all birds. Per can 28c.

### Birdolene

Famous as a song food and a preventive for all diseases. Per pkg., 35c.

### Spratt's Sing Song

A manna food to be clipped to the cage. It is enjoyed by the birds and helps their song. Price 15c each.

### Bird Manna

Fastens to cage and is valuable for treating common ailments. Price 17c.



### Spratt's Cod Liver Oil Nestling Food

The modern method of feeding old birds and mother birds that are rearing young. Does away with all the old fashioned egg foods, bird biscuits, etc. Produces strong healthy singers. 4 oz., pkg., 18c.; 9 oz. pkg., 35c.

### Canary Hi-Balls

A yeast and cod liver oil manna food that hangs in the center of the cage providing the bird with exercise while furnishing a healthy song food and stimulant. Price 15c each.

### FREE BOOKLETS

Ask for them with your order. Spratt's "Hints on the Care and Feeding of Canaries." (For Raising Birds.) Kaempfer's "The Care and Treatment of Canaries." Justrite "Canary Guide Book."

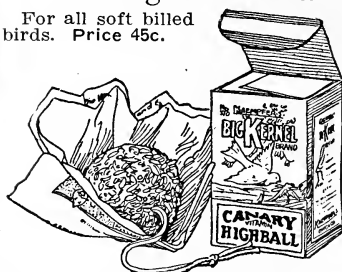


### Spratt's Moulting Food

To be fed during the moulting season. Price 30c.

### Mocking Bird Food

For all soft billed birds. Price 45c.



### Canary Hi-Balls

A yeast and cod liver oil manna food that hangs in the center of the cage providing the bird with exercise while furnishing a healthy song food and stimulant. Price 15c each.

### Color Food

Produces deep yellow or orange color. Should be fed to young birds by mixing with the nestling food or to old birds at the time of moulting by mixing in the moulting food. Choice of Orange or Yellow color. Price 35c.

### Bird Louse Powder

In dust-guns, 30c; in shaker-top cartons, 30c.

### Parrot Crackers

Cakes relished by parrots. 30c per box.

### Parrot Seed

Two-thirds of the sunflower seed sold for parrots is worm eaten. We are particular in selecting our seed, using only the large, plump, mammoth Russian variety. 1 lb., 25c.

### Baldhead Remedy

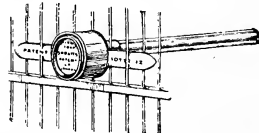
To be applied to bare spots on canaries' head. Price 18c.

### Scaly Leg Ointment

For sore feet and scaly legs. Price 18c.

### Bird Mite Traps

A decided success in ridding birds and cages of troublesome red mites. For best results the bird should be dusted with powder and all perches removed from cage. The mite trap is then installed in the cage and bird allowed to roost upon it. If this treatment is continued for three or four nights, even the most badly infested cage will be thoroughly cleaned and the bird freed of further annoyance. Price 30c.



### Bird Gravel

A triple washed gravel that provides birds with the necessary grit and helps to keep their feet clean. Per 2 lb. pkg., 25c. Add postage. In bulk, 10c per lb. Add postage.

### Gravel Paper

Prepared paper which provides the bird with gravel in clean and sanitary manner. Per dozen sheets, 25c. Shipping weight, 1 lb. Give width of cage when ordering.

### Rabbit and Dog Feeders

See page 9.

### Books on Birds

"PARROTS AND OTHER TALKING PETS"—A complete, illustrated study on parrots and parakeets. Tells how to teach them to talk, care for them properly and treat them for sickness. Price 35c.

"CANARY BREEDING AND TRAINING"—Thoroughly covers every phase of raising canaries in your own home, and training them to sing. Illustrated. Price 35c.

"FEATHERED PETS"—Describes every bird that may be kept as a pet. Tells how to feed them properly, and care for them in time of sickness. Profusely illustrated. Price 35c.

# DOG FOODS AND SUPPLIES

## SPRATT'S DOG FOODS

The oldest and best known of all prepared foods for dogs. We recommend that you feed more than one kind of Spratt's cakes, in order to vary your dog's diet. Spratt's biscuits provide a complete food, nothing else is necessary. We especially warn against feeding potatoes, white bread, corn meal and an excess of meat. We will furnish free the following booklets:

SPRATT'S Hints on the care and Feeding of Dogs.  
 SPRATT'S Hints on Rearing Puppies.  
 SPRATT'S Tips on Dog Feeding.

### Spratt's Fibo

A granulated food that is very appetizing and highly recommended for shy and dainty feeders.



### Spratt's Ovals

The pocket dog biscuit. A delectable treat for any dog.



### Spratt's

#### Charcoal Ovals

Similar to the regular oval but with charcoal added. These biscuits are one of the best correctives of digestive disorders, and every dog should eat them dry at least once a week.



### Spratt's Dog Cakes

A large cake which is used by leading breeders throughout the world. These biscuits are recommended for the larger type dogs, such as shepherds, police dogs, etc.

Prices on above foods: 2 lbs., 35c; 6 lbs., \$1.00. Add postage.

### Spratt's Alsat

A granulated Cod Liver Oil food especially prepared for shepherds, setters and police dogs. 10 lb. bag, \$1.75. Add postage.



### Spratt's Puppy Cakes

A necessary food for puppies from weaning time on and for small breeds instead of Spratt's large dog cakes. Knowing the dry biscuit assures proper development of the puppies' teeth. 2 lb. pkg., 50c. Add postage.

### Spratt's Cod Liver Oil Cakes

A valuable change in the diet at any time and a great body builder and tonic food for after worming and whelping. A good conditioner for any dog whose general health is run down. 2 lb. box, 55c. Add postage.

### Vitamont Dog Food

A cooked food composed of meat, vegetables and charcoal. Good for all dogs of all ages. Per can, 15c; 7 cans, \$1.00; 48 cans, \$6.55. Weight per can 1 lb.

### Spratt's Puppliac

An ideal milk substitute for orphan puppies. 10 oz. can, 75c, postpaid.

### Ceretana Dog Biscuit Meal

A complete food in meal form. Should be mixed with water and baked hard and fed like dog biscuits. 10 lbs., 55c. Add postage.

## SPRATT'S DOG REMEDIES

	Postpaid Prices
Antiseptic Dog Soap for cuts and skin diseases	\$.025
Spratt's Flea Soap	.25
Flea Powder	.35
Chronic Skin Disease Tablets	.65
Jaundice Tablets	.65
Diarrhea Tablets	.65
Distemper Tablets for puppies and small dogs	1.00
Distemper Tablets for old dogs	1.00
Worm capsules for puppies	.55
Worm capsules for old dogs	.55
Tape Worm Tablets	.65
Ear Canker Ointment	.65
Cooling and alternative tablets	.65
Cough tablets	.65
Mange and skin disease ointment	.65
Liquid Mange cure	.85
Constipation tablets	.55



### PET LICKS

Sulphurized and mineralized spoons of salt for rabbits, guinea pigs, etc. 10 spoons, 75c, postpaid.



### DOG BRUSHES

For Collies, Setters and other long-haired dogs. \$1.25, postpaid. For close-haired dogs, 85c, postpaid.

### ALUMINUM COMBS

For long-haired dogs, \$1.10, postpaid. For short-haired dogs, 85c, postpaid.

### STRIPPING COMBS

50c, postpaid.

### DOG COLLARS

Leather collars fitted with name plates and brass studdings, felt lined. Size 11 to 17 inch, 85c, postpaid. 17 to 20 inch, 95c, postpaid.

### DOG HARNESS

For small dogs, 95c, postpaid. For larger dogs, \$1.25, postpaid. Heavy leather harnesses for police dogs, \$3.25, postpaid.

**NOTE**—When ordering collars or harnesses, give tape-measurement around the neck and around the body just back of the front legs.

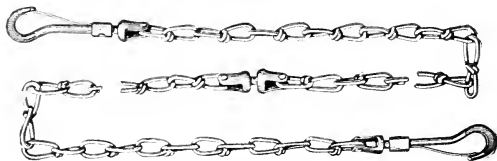
If there is any special style harness or collar wanted, please advise us and we will quote you prices.

**DOG SWEATERS**

Woolen worsted sweaters, sizes 10 to 20, button front, \$1.55, postpaid.

Brushed wool sweaters in gay colors, \$1.80, postpaid.

Heavy 100 per cent Virgin Wool Sweaters, \$2.25, postpaid.

**DOG CHAINS**

Heavy chains with hook and swivel. 4 ft., 40c, postpaid; 6 ft., 50c, postpaid.

**RUBBER BONES**

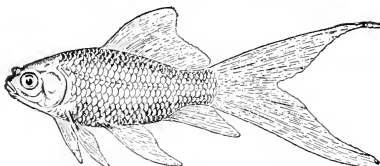
A beneficial plaything for dogs and puppies as it keeps the teeth clean and in good condition. Solid rubber, 50c, postpaid.

**RUBBER BALLS**

Colored balls, solid rubber, 50c, postpaid.

**GOLDFISH**

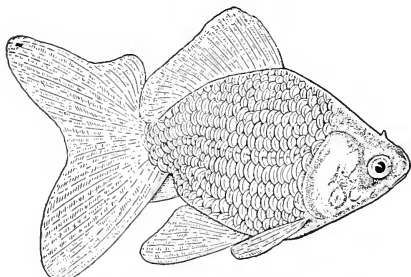
GOLDFISH are not only beautiful and interesting to watch, but they help maintain proper conditions of humidity in the house. Our goldfish are selected stock and are all in perfect condition. WE HAVE SHIPPED GOLDFISH SAFELY TO ALL PARTS OF MONTANA, IDAHO AND WYOMING. All fish are shipped by Express.

**Common Goldfish**

Medium size, 15c each; large size, 25c each.

**Shubunkins**

A scaleless fish of variegated colors. Medium size, 50c each.

**American Fantail**

The most popular of all fancy fish. Medium size, 50c each.

**Comets**

An extra long fast-swimming fish characterized by unusually long tail and fins. Medium size, 50c each.

**Chinese Moors**

A weird and grotesque fantail with huge bulging eyes. Jet black color. \$1.00 each.

**POND SNAILS**

Very useful as scavengers because they eat fish refuse. 10c each.

**BLACK JAP SNAILS**

A large trapdoor snail. 30c each.

**RED RAMSHORN SNAILS**

A large red snail, similar to the Pond Snail. 50c each.

All fish must be shipped in aerated cans. Add 15c to cover the cost of can. We advise people living long distances, who come in for fish to either buy a can here or bring with them a clean 10-pound lard pail with cover.

**Oxydene**

A life saver to goldfish. OXYDENE is a buff colored rock which, when placed in the bottom of goldfish bowls and aquariums, gives off oxygen and purifies the water. We have made actual tests in our store putting ten times as many fish in a bowl than is considered correct and found that it was necessary to change the water only once each week.

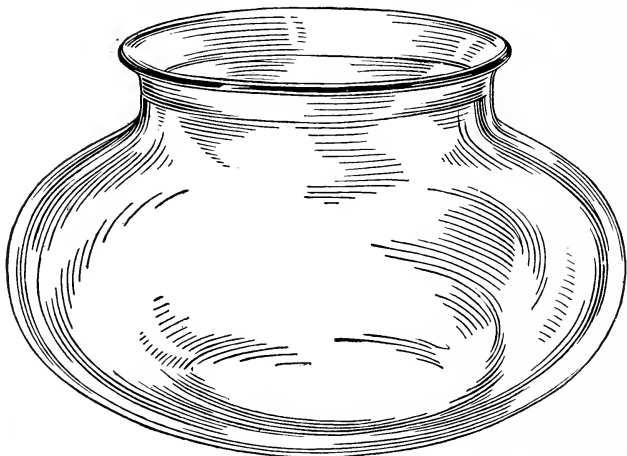
OXYDENE gives off oxygen and purifies the water as long as the rock lasts, which is from three to four months.

A one-gallon bowl should have at least one-half to three-fourths of a pound of OXYDENE in the bottom.

Put up in 25c, 40c and 60c packages. Postpaid prices.

**AQUARIUM SUPPLIES**

**NOTE**—To all prices quoted on fish bowls add 20c to cover packing charges. We do not guarantee against breakage in shipment and if sent by parcel-post advise that you include 5c additional to cover insurance charges.

**HAND TURNED FISH BOWLS****Squat Globe Bowls****CLEAR GLASS**

Capacity	Shipping Weight	Price
1/4 gal.....	2 lbs.....	\$0.25
1/2 gal.....	3 lbs.....	.40
1 gal.....	4 lbs.....	.75
2 gal.....	6 lbs.....	1.50

**Squat Globe Bowls**

Colored, either green, canary or blue. 2 gal. size only, \$1.95. Shipping weight, 6 lbs.



**Drum Shaped Bowls**

CLEAR GLASS		
Capacity	Shipping Weight	Price
1 gal.....	4 lbs.....	\$0.75
2 gal.....	6 lbs.....	1.50

GREEN COLOR		
Capacity	Shipping Weight	Price
1 gal.....	4 lbs.....	\$0.85
2 gal.....	6 lbs.....	1.95

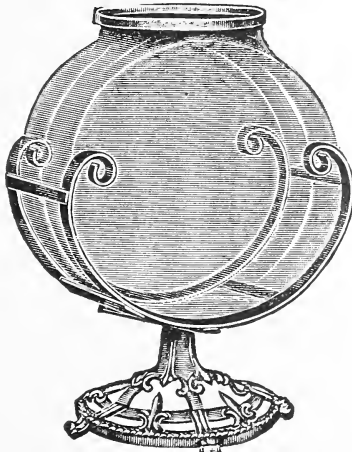
**Egyptian Bowls**

1 gallon capacity, 95c.

**Venetian Bowls**

An extra heavy bowl which provides a maximum amount of air space. Amber or blue color, 1¾ gal. capacity, shipping weight, 6 lbs. Bowl only, \$1.75 each.

BLACK BASE for these bowls, 25c.

**Combination No. 227**

Two-gallon drum bowl with a well balanced heavy table stand furnished with clear crystal bowl, weight, 8 lbs. Complete, \$2.40.

With Green Drum bowl, complete, \$2.85. Stand only, \$1.25.

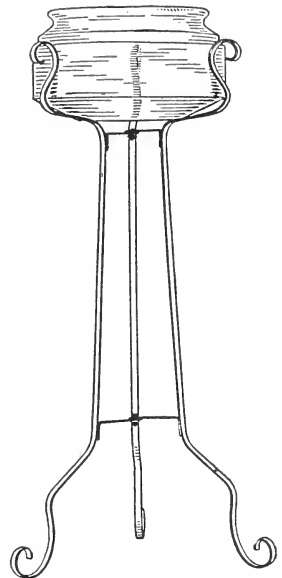
**Floor Stand No. 229**

A heavy well-balanced floor stand with a two-gallon bowl. Shipping weight, 10 lbs.

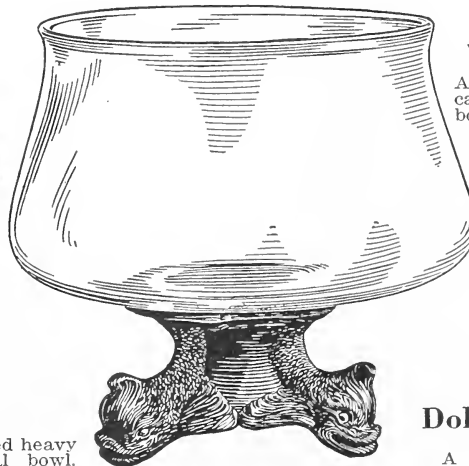
With clear bowl, \$3.15.  
With green bowl, \$3.60.  
Stand only, \$1.95.

**Colonial Squat Bowl No. 305**

A floor stand and two-gallon green bowl. Shipping weight, bowl only, 6 lbs., \$2.25.

**Floor Stand No. S-40**

Of wrought iron, may be used with the Colonial Squat Bowl, two-gallon, Squat Bowl and No. 303 Bowl. Colors, red or green. Shipping weight, 6 lbs. \$1.50.

**Wide Mouth Bowl**

With Dolphin Base No. 303. An extra heavy canary color bowl that provides plenty of air space. Bowl only, \$2.15. Shipping weight 6 lbs. Capacity, 2½ gallons.

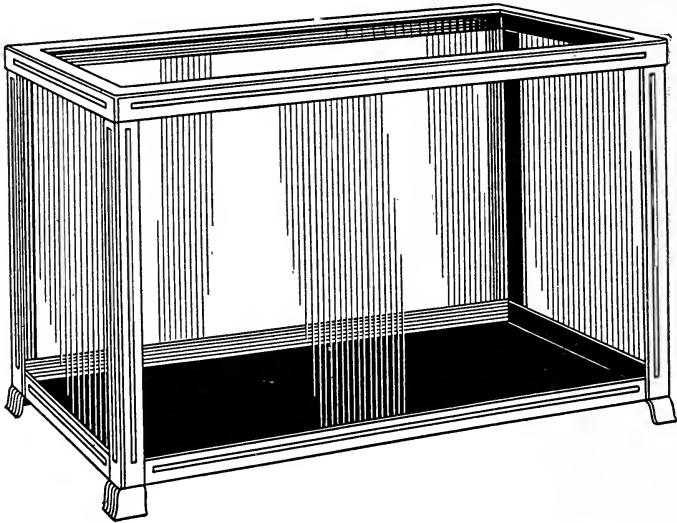
**Dolphin Base**

A distinctive table stand for the above bowl, \$1.00, postpaid.

Steel Frame Aquariums

The best home for your fish, easily decorated, more substantial, roomy and comfortable for gold or tropical fish.

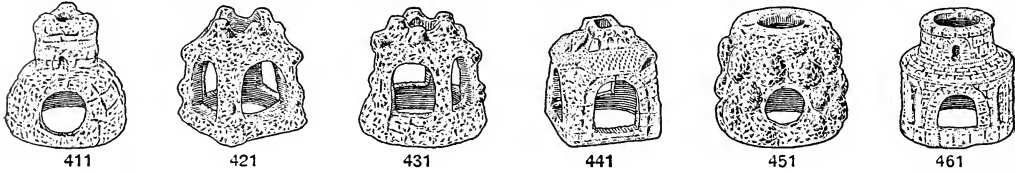
Capacity	Shipping Wt.	Price
2 gal.....	4 lbs.....	\$2.50
3 gal.....	6 lbs.....	3.75
4 gal.....	8 lbs.....	5.00



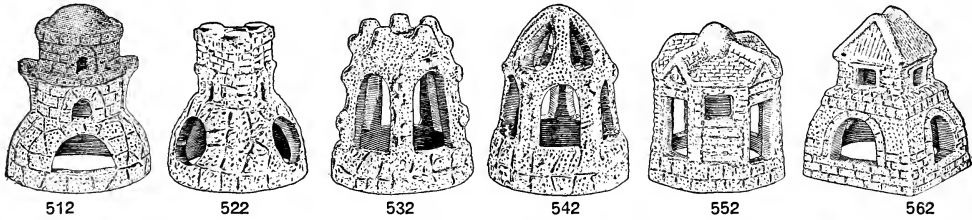
Goldfish Castles

Hard-burned terra-cotta castles in variegated colors.

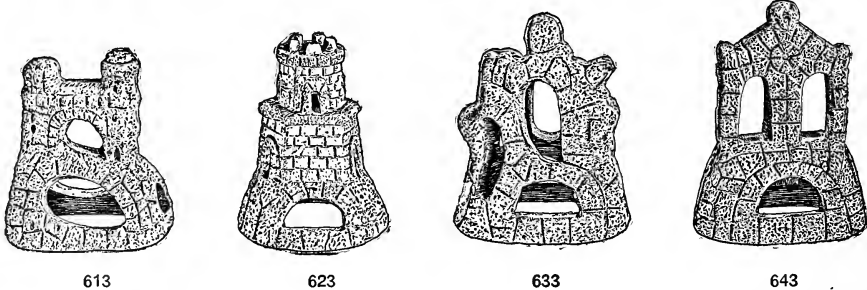
SET NO. 1—Each, 20c. Shipping weight 1 lb. Average height, 3 inches.



SET NO. 2—Each, 35c. Shipping weight 2 lbs. Average height, 4 inches.



SET NO. 3—Each, 50c. Shipping weight 3 lbs. Average height, 5 inches.



IMITATION LILY FLOWER

An attractive aquarium ornament, stained with colors that will not come off in the water. Blue, pink or red flowers. 18c, postpaid.



FISHER BOY FIGURES

A faithful reproduction of small boys modeled in bisque, arranged to sit on the edge of the bowl. Fish pole and line furnished. 25c each, postpaid.

SHELLS and CHIPS

Dyed with bright non-fading colors. Beautiful decorations for any bowl. Per box, 20c, postpaid.

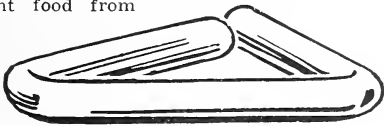
## JAPANESE UNDER-WATER FLOWERS



This interesting novelty will swell when immersed in water and produces beautiful flowers as shown in the left-hand view. Flowers are all colors and guaranteed non-fading. May be used in goldfish aquariums or placed in a milk bottle or tumbler to create a beautiful effect. 2½ in. size 15c, postpaid; 5 in. size, 30c, postpaid.

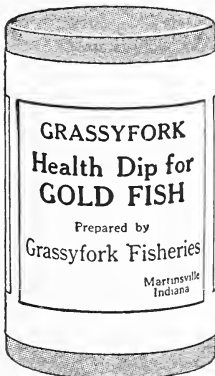
## FEEDING TRIANGLES

To prevent food from scattering over the entire bowl. Each, 15c, postpaid.



**Grassfork Wafers**  
15c, postpaid.

**Spratt's Aquarium Food**  
A granulated food for fish, 15c, postpaid.



## HEALTH DIP

Prevents fungus disease and keeps fish in healthy condition. Should be used once a month. 30c per package, postpaid.

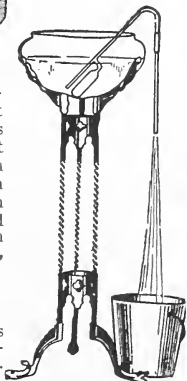
## NETS

It is extremely important that the hands are never put in the goldfish water, as an acid will form which will kill the fish. Woven nets, 30c each, postpaid.



## Draining Device

To change the water in bowls and aquariums without disturbing the contents. Easy to use. Each, \$1.00, postpaid.

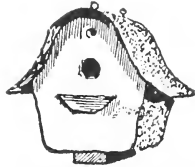


## WATER PLANTS

Necessary in fish bowls and aquariums to supply oxygen and natural food for fish. They improve the appearance of any bowl. Six plants, 25c, postpaid.

## RUSTIC BIRD HOUSES

Of all the additions that may be made to the garden, there are none that are more pleasant, entertaining or useful than the wild birds. The erecting of bird houses is the most practical way of attracting them. The houses listed below are all made of cypress, and hemlock and are finished in natural color. Each house is built to accommodate only one specie of bird and are made as natural as possible.



No. 10 Wren House

### Wren House No. 10

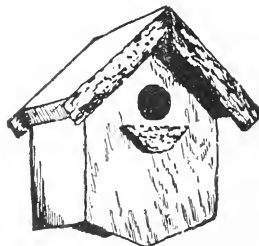
This little house is strong and weatherproof and may be cleaned by removing the strip of wood at the bottom. Price, \$1.25. Shipping weight 1 lb.

### Wren House No. 6

Here is a house of simple, yet pleasing design, made of southern cypress, stained a soft brown; bottom is removable. Price, \$1.75. Shipping weight 1 lb.



No. 6 Wren House



No. 7 Swallow House

### Tree Swallow House No. 7

The house is also suitable for Bluebirds and is especially designed to be mounted up on top of a pole. Made of cypress with a rustic hemlock trim. The bottom is removable. Price, \$2.35, Shipping weight 3 lbs.

### Blue Bird House No. 4

This is a very sturdy and practical house for Bluebirds, intended to be fastened to the trunk of a tree. The sides are of hemlock and the roof, back and bottom are cypress. Price, \$2.65, Shipping weight 3 lbs.



No. 4 Blue Bird House



No. 2 Wren House

### Wren House No. 2

Here is a rustic wren house designed to be fastened to the trunk of a tree. Three sides are of hemlock and the roof, back and bottom are of cypress. An ornamental twig is fastened to the trunk. Price, \$2.30. Shipping weight 3 lbs.

## NURSERY DEPARTMENT

After several years of careful preparation and hard work, we can now offer our many customers a complete line of nursery stock. We have located our Nursery at Great Falls where hundreds of different varieties have been planted and tried so that nothing but the hardiest of each species would be sold our customers in this GREAT NORTHWEST.

### Foreword

**Our Guarantee:** We guarantee to every customer, stock that is true to name, and absolutely as represented. Any stock proven not to be true to name will be replaced free of charge.

**Date of Shipment:** We prefer to have our customers allow us the privilege of shipping when we deem best. One day before stock is dug and packed at our nursery in Great Falls, we will mail a card to each customer who has placed an order notifying that goods have been shipped. **COMPLETE PLANTING DIRECTIONS**, also caring for nursery stock will be mailed with each order.

**IF YOU CANNOT PLANT STOCK** within **THREE** days after goods arrive, heel-in all stock, using plenty of water.

**Terms:** On all orders for Nursery Stock we require a deposit of 50% of entire order and

no Nursery Stock will be shipped C. O. D. for entire amount.

### Free Transportation

We pay all transportation charges on Trees, Shrubs, and Plants.

### Our Substantial Guarantee

All goods are guaranteed to reach you in good condition; mistakes, if made, will be promptly rectified. Accept shipment, examine, and count on receipt, and notify us at once should there be any errors, and the carriers as well, if any damaged stock. This guarantee not good unless above requirements are complied with. **PROVIDING** planting directions are followed, we guarantee to replace at one-half original cost, all stock failing to grow, but will not pay transportation charges on replacements.

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## HARDY ORNAMENTAL TREES

### *For Shade and Beauty*

**AMERICAN WHITE ASH**—A tall rapid grower, smooth grey bark and glossy leaves. We recommend this tree for parks, streets, and also as individual specimens, the best hard wood tree for Montana. 6 to 8 ft., \$1.50, per doz., \$15.00; 8 to 10 ft., \$2.50, per doz., \$25.00.

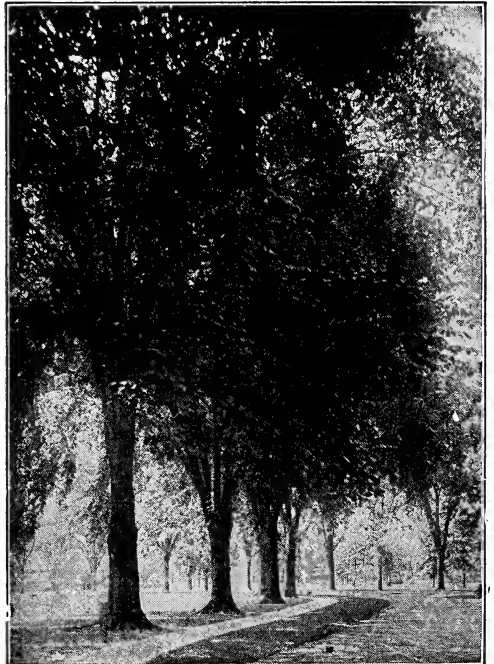
**EUROPEAN MOUNTAIN ASH**—A tree noted for its extreme hardiness and beauty, covered from July until mid-winter with bunches of bright scarlet berries. 6 to 8 ft., \$2.00.

**CUT LEAF BIRCH**—Its tall, slender, yet vigorous growth, graceful drooping habit, silver white bark and delicately cut foliage presents a combination of attractive characteristics rarely met with in a single tree. Each, 5 to 6 ft., \$4.00.

**BOX ELDER** or **MANITOBA MAPLE**—Large spreading tree of rapid growth, very hardy and a good drought resister. Leaves resembles those of the ash. 5 to 6 ft., \$1.00, doz., \$7.50; 6 to 8 ft., \$1.25, doz., \$12.50.

**ELM (AMERICAN)**—A noble native tree of great size and wide spread with graceful drooping branches and handsome leaves. One of the best for individual plantings. 5 to 6 ft., \$1.25.

**ELM (CHINESE)**—A new variety introduced from China. It is noted for its great resistance to drought and alkali may be trained as a bush or tree. One of the most rapid growing of all trees. Each, 5 to 6 ft., \$2.00.



American Elm

## HARDY ORNAMENTAL TREES—Cont.

**POPLARS (CANADIAN)**—Without doubt the most popular tree planted in the Northwest, may be planted as specimen trees or used for parking purposes where quick shade is required. 4 to 5 ft., 75c, per doz., \$7.00; 6 to 8 ft., \$1.50, per doz., \$15.00.

**POPLAR (BALM OF GILEAD)**—A remarkably rapid growing tree with luxuriant glossy foliage, very hardy and does extremely well in the open prairies of Montana. 5 to 6 ft., \$1.00.

**WILLOW**—Besides the beauty of their foliage the willows have a distinct winter value in the color

brightness of their bark when leaves have fallen. As wind breaks they are unexcelled and as specimen trees are handsome and ornamental.

**GOLDEN WILLOW**—A pure golden color extremely hardy, and is ideal when used as a specimen tree. 4 to 5 ft., 50c, per doz., \$5.00; 5 to 6 ft., 75c, per doz. \$7.50; 8 ft., \$1.00, per doz., \$10.00.

**LAUREL LVD. WILLOW**—A splendid ornamental tree with large glossy dark laurel like leaves. May be well associated with the screening shrubs. 6 to 8 ft., \$1.50.



## EVERGREENS

### For Year-round Effects

Our evergreens are all carefully grown at good distances for symmetrical development, are root and top pruned into handsome shapely specimens that will transplant successfully in the homes with ordinary care. All our evergreens are balled and burlapped for shipping. In planting it is not necessary to remove the burlap.

**COLORADO BLUE SPRUCE**—Foliage a rich blue. A free grower and perfectly hardy. The most striking of the spruce family. Each, 2 to 2½ ft., \$12.50; per pair, \$22.00 F. O. B. Great Falls.

**BLACK HILL SPRUCE**—The hardiest of all spruce, compact and bushy in habit of growth, will bear shearing or cutting well. Each, 2½ to 3 ft., \$6.00 F. O. B. Great Falls; each, 3½ to 4 ft., \$10.00 F. O. B. Great Falls.

**PINES (AUSTRALIAN PINE)**—Broad based, heavy needled, massive darkest and richest greens of the pines. Sometimes called the Black Pine. Noted for its fast annual growth. 2 to 3 ft., \$6.00, prepaid.

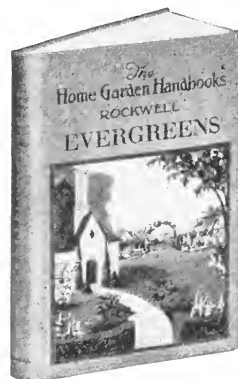
**MUGHO PINE (Dwarf Pine)**—This variety is ideal for border plantings and foundation work, never grows over four or five feet tall but spreads out 6 to 8 feet in diameter. Stands shearing well. Each, 15 to 18 inches, \$5.00.

**JUNIPER (Pfitzeriana)**—The spiral branches are long and whip like, densely furnished; very dark green. The shape and size may be readily controlled by shearing. Used for foundation planting on the north side of buildings. Each, 1½ to 2 ft., \$6.00.

## ARBOR VITAE

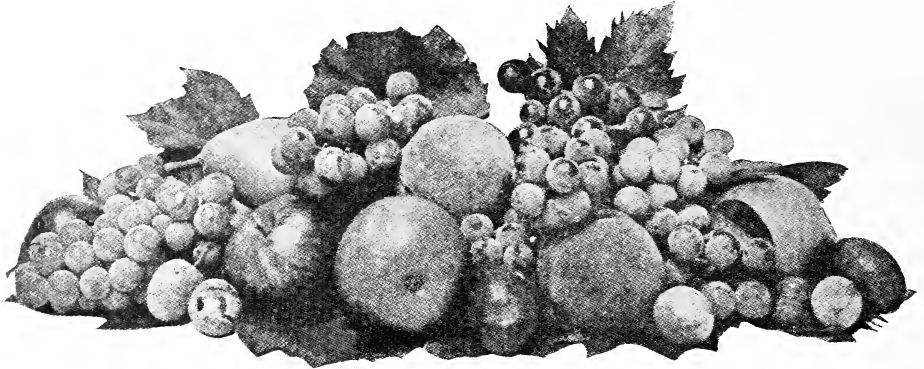
**PYRAMIDALIS**—A most valuable upright evergreen of dense compact columnar growth, reaching as high as twenty feet. This tree is hardy but requires the full sun in order to obtain its maximum growth. Each, 2 to 2½ ft., \$5.00.

**AMERICAN ARBOR VITAE**—Sometimes termed the White Seeder, grows rapidly and soon forms a most beautiful tree, like other types of arbor vitae it can be trimmed at will, of erect pyramidal habit with soft, bright green foliage. Each, 12 to 18 inches, \$3.00.



**EVERGREENS FOR THE SMALL PLACE**, by F. F. Rockwell—All the information you need to make the best use of evergreens is in this handy book, written by one who is himself a home owner and a garden maker.

It tells the uses, characteristics, and types of small or dwarf evergreens and details of their planting, transplanting, and general care. 67 illustrations. 84 pages, \$1.00.

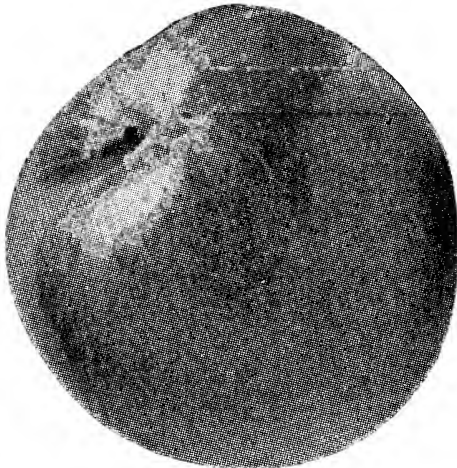


## FRUIT TREE DEPARTMENT

There is a constantly increasing demand for high quality fruit of all kinds, and in no class of fruit is the demand more noticeable than in Apples.

### APPLES

**DUCHESS OF OLDENBURG**—This handsome variety of Russian Apples proves one of the most hardy and profitable varieties in cultivation, especially in our Northwestern sections. Fruit streaked with red on a golden or yellow background.



Wealthy

**YELLOW TRANSPARENT**—One of the earliest and best. Fruit pure white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young, and is a real money maker.

**McINTOSH RED**—So well known that no description is necessary. A good bearer of handsome fruit of medium size nearly covered with red.

**WEALTHY**—Without doubt the leading winter variety for the Northwest. Fruit, large, deep crimson, highest quality, juicy and sub-acid.

Prices of above varieties: Each, 5-6 ft., \$1.25; per doz., \$12.00, prepaid.

### CRAB APPLES

**TRANSCENDENT**—Very early bearer of juicy fruit. A very strong grower, bearing the second year.

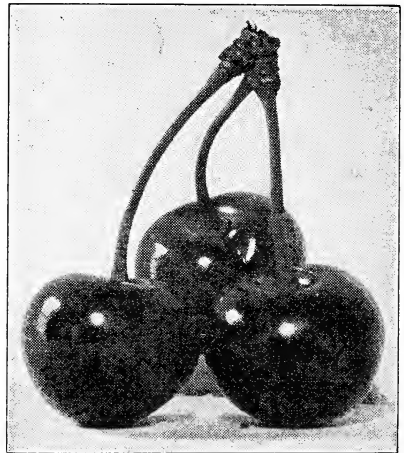
**WHITNEY**—Very hardy and good both for cooking and eating. Flesh firm, juicy and pleasant.

**RED SIBERIAN**—One of the hardest Crab Apples yet introduced. Bears immense crops of delicious fruit.

Prices of above varieties: Each, 5-6 ft., \$1.25; per doz., \$12.00.

### CHERRIES

In past year we have not advised planting cherries north of Billings, but results from test planting have convinced us that they can be planted in other sections. However, before planting a considerable number, we suggest that you try just a few trees of our Hardy Acclimated Stock.



Montmorency

**EARLY RICHMOND**—A dependable variety which seldom misses a crop. Medium dark red, melting, juicy, sprightly, rich acid, and one of the best.

**MONTMORENCY**—We consider this variety the most productive for the Northwest. Fruit large, red, productive and about ten days later than Early Richmond.

### PLUMS

#### *Always Top the Market*

The market for plums is rarely over-stocked, and they bring good returns. Plum trees are the best to set out in the chicken yards; their full, rounded form furnishing abundant shade for the fowls.

**OPATA**—Trees vigorous, fruit dark purplish red, flesh green, quality delicious, pit small, season early. Fruits second year after planting.

**WANETA**—Bears young, fruit is not only large and attractive, but has a delicious flavor. Hardy anywhere in the Northern States and considered the most delicious of all Plums.

Prices of above varieties: Each, \$1.50; per doz., \$15.00.



## FRUIT TREE DEPARTMENT—Cont.



## CURRANTS

Hardy, easily cultivated, standing neglect well, and liberally responding to cultivation and generous treatment; indispensable for table use, jellies, etc. Set four feet apart in rich ground, cultivate well, prune out old wood so that each remaining shoot will have room to grow.

**PERFECTION**—Beautiful, bright red, fruit holding its large size to end of bunch; easy to pick, a superior bearer, less acid and of better quality than any other large currant in cultivation. 2-year-old bushes, each, 50c; per doz., \$4.50.

## GOOSEBERRIES

Set 3 to 4 feet apart, in good rich soil and give a good application of fertilizer yearly. A yearly pruning is essential.

**CHAMPION**—Fruit medium to large with exceptional quality. A remarkable bearer, not known to mildew.

**CARRIE**—Strong, upright, hardy, healthy, easily picked, good size, flesh tender and juicy. Bears fruit the next year after transplanting.

Price of Gooseberries: Each 50c; per doz., \$4.50.

## Raspberries

Plant in rows 5 feet apart, 3 feet apart in the row. Ground bone is one of the best fertilizers. As soon as they have done bearing, cut out the old wood to give more vigor to the young canes.

**LATHAM**—This remarkable and very desirable new variety is perfectly hardy, withstanding our cold northwest winters without protection. Berries are large and round, color a brilliant red.

**ST. REGIS**—Fruit commences to ripen with the earliest and continuing on young canes until October. Many quarts often being picked after the first snowfall. Perhaps the best known of the everbearing type.

Price of Raspberries:  
Per doz., \$1.25.

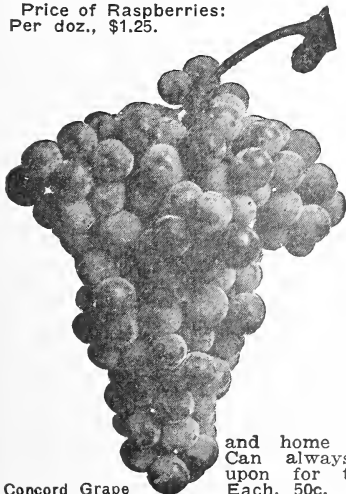


## Grapes

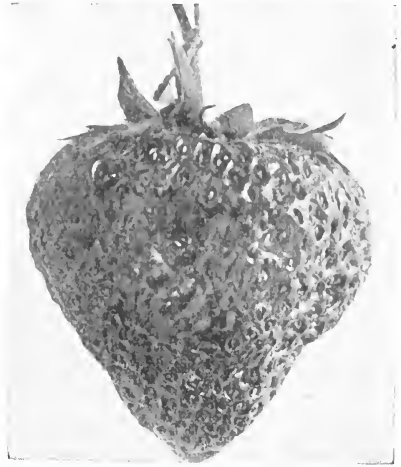
Make the soil mellow and plant the vines somewhat deeper than they stood in the nursery.

**BETA**—A cross of the wild grape having same hardness and general qualities with fruit much larger and of better quality. One of the hardiest and well adapted for the northwest. Each, 50c.

**CONCORD**—The leading garden variety. Can always be depended upon for the main crop.



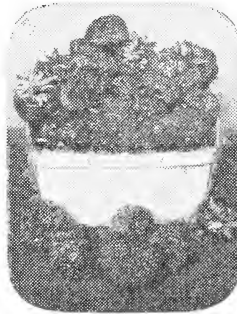
Concord Grape



## STRAWBERRIES

Soil should be thoroughly prepared to a good depth and enriched, well drained, to produce fine large fruit, keep in hills, pinching runners off as soon as they appear. We recommend using mulching paper on your strawberry bed.

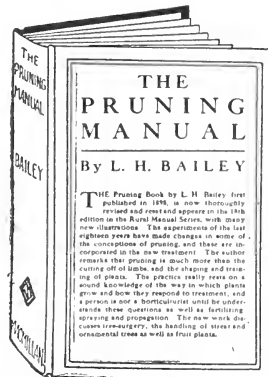
## EVERBEARING VARIETIES



The Famous Mastodon

**MASTODON**—This new variety is the last word in strawberry and out ranks all predecessors. It is of immense size and also creditable proper, of choice quality, and the strongest grower yet developed. Price, 25 for \$1.25; 100 for \$4.00; 500 for \$15.00.

**PROGRESSIVE**—A strong upright grower and great drought resister. Fruits abundantly about three months after plants are set and continues until after fall. Price, \$2.50 per 100 tied in bundles of 25. No order for less than 25 accepted.



**THE PRUNING MANUAL**, by L. H. Bailey—Instructions on just how and when to prune trees, shrubs, and vines. Explains the physical structure of plants, their habits of growth, methods of flower and fruit bearing and how pruning can be fitted intelligently to these. 381 illustrations, 400 pages, \$2.50.

## SHRUBS, HEDGE AND VINES



A Harmonious Planting Adds Charming Beauty to the Home

**BARBERRY**—Thunbergi (Japan Barberry)—One of the hardiest of shrubs. It is very dense and low growing, the leaves are small, light green and towards fall assume brilliant colors of red, orange and yellow. The berries becoming scarlet. Each 2½ to 3 feet, \$1.00.

**BUTTERFLY BUSH** (Summer Lilac)—Blooms continuously from July until severe frost. 4 to 8 feet high, with lilac colored, fragrant flowers. Blooms freely the first season. Each, 2 to 3 feet, \$1.00.

**HIGH BUSH CRANBERRY**—Both ornamental and useful where a high decorative tall growing shrub is desired. Each, 2 to 3 feet, \$1.00.

**HONEYSUCKLE** (Tatarian Pink)—This bush will succeed anywhere as it is absolutely hardy and free flowering. During the spring it is covered with pink and white flowers and is a very rapid grower. Each, 2 to 3 feet, \$1.00; 3 to 4 feet, \$1.50.

**LILAC** (Common Purple)—One of the most popular of all shrubs, excellent for specimen purposes or for hedge use. Each, 2 to 3 feet, 75c; 3 to 4 feet, \$1.00.

**LILAC** (White)—Taller and more slender than the purple variety. Each, 2 to 3 feet, \$1.00.

**PERSIAN LILAC**—Dwarf growing with slender branches and narrow leaves; a choice foundation subject. Each, 2 to 3 feet, 75c.

**SPIREAS**—These particular shrubs are noted for their great extravagance of bloom, particularly useful for foundation planting.

**SPIREA VAN HOUTI**—Sometimes called bridal wreath. Without doubt the best of all spireas; a fountain of pure white, bloom in May and June. The foliage and bush shape is ornamental the year around. Each, 2 to 3 feet, 75c; 3 to 4 feet, \$1.00.

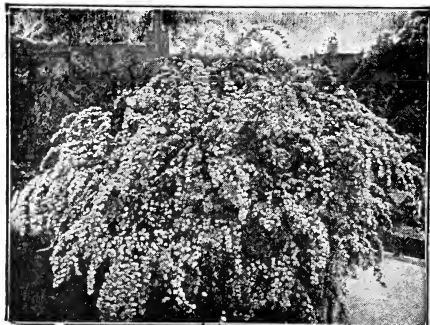
**SPIREA ANTHONY WATERER**—Dwarf, bushy, of spreading type. This is one of the few good showy red flowered shrubs, sufficiently dwarf to be used in foundation planting. Each, 2 to 3 feet, \$1.00.

**STAGHORN SUMACK**—A rapid grower with large fern like leaves which gives the bush a tropical appearance. Should be cut back severely in the spring. Each, 2 to 3 feet, 75c.

**VIBURNUM OPULUS** (Snowball or Guelder Rose)—The common snowball which helps out so bravely for Decoration Day with its lovely white bloom. One of the hardiest of all shrubs. Each, 2 to 3 feet, \$1.00.

### LANDSCAPING SERVICE

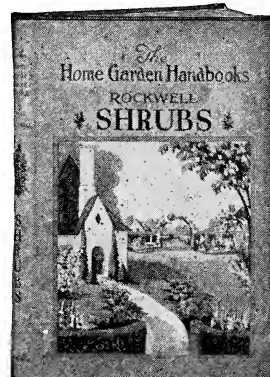
Send us a diagram of your grounds and we will submit, free of charge, suggested planning scheme and approximate cost.



Spirea Van Houttei (Bridal Wreath)

### SHRUBS

**SHRUBS**, by F. F. Rockwell—Here is brief but complete and usable information on the best ways to improve the beauty and value of your home with shrubs. Tells what to select for different combinations and effects, and how to plant, water, prune, and care for shrubs. 49 illustrations, 76 pages, \$1.00.



# FIELD SEED DEPARTMENT

WRITE FOR SAMPLES AND TESTS

## ALFALFA SEED

### "X-L" Hi-Germinating

For prices see field seed price list.

"X-L" BRAND (Montana grown)—The best money can buy—Our state produces the finest grade of Alfalfa grown. Montana grown Alfalfa commands a premium on all the eastern markets because of its extreme hardness. Not only has our experience of several years demonstrated the superiority of this seed under adverse weather conditions, but more recent experiments of both the Minnesota and North Dakota Agricultural Stations have established the superior hardness of Montana grown Alfalfa. The seed is over 99 per cent pure, no dodger, well scarified and graded. Sow 8 to 10 pounds to the acre. Scarified seed.

(Montana Grown, 2 Grade)—While not carrying as high a test as our "X-L" brand, this seed will prove satisfactory in every way. We recommend this brand to our Northwestern farmers because of its hardness and real economy. Our stock of this seed was produced in the high altitudes of our western basins where extremes of temperature test the parent plants to the utmost. During the great part of the growing season the days are extremely hot with very cool nights. The seed is thoroughly cleaned, plump, of beautiful color, well graded, and scarified and excellent germination. Over 90 per cent pure. We have handled this seed for years and know you will find it all we claim. Scarified Seed.

"X-L" ALFALFA AND CLOVER MIXED—We obtained one lot of seed this past season that carried approximately 80 per cent high grade alfalfa seed and 20 per cent yellow blossom clover. For those who desire to start a permanent pasture of alfalfa and are not particular if a showing of clover is found the first two years we recommend this mixture. The seed carries the same hi-germination and purity tests as our "X-L" brand but due to the mixture we are pleased to offer it at a very attractive price.

REGISTERED GRIMM ALFALFA (Montana Grown)—Called the Everlasting Alfalfa. Grimm stands in the same high relation to the Alfalfa as Marquis Wheat does to the Wheat Crop. Endures extremes of cold and withstands excessive heat. Adapts itself to most all kinds of soils and has obtained a reputation for productiveness and hardness throughout the United States. Our seed is graded No. 1, graded by The Montana Seed Growers Association and carries the blue tag, being over 99½ per cent pure. Plump bright, well graded and scarified seed. Sold in sealed bags only. In 5 lb. 10 lb., 25 lb., and 50 lb., bags only. We can not break the seals so must sell in even lots. Scarified Seed.

CERTIFIED GRIMM ALFALFA—This seed was grown from registered seed, inspected and sealed by our personal representative, and certified by growers affidavit. Many of our customers who have bought this grade of seed from us in past years have nothing but the highest praise for it. It carries a purity test of 99.50 per cent and germination over 90 per cent. Scarified Seed.

## CLOVERS

### "X-L" Hi-Germinating

#### SCARIFIED SWEET CLOVER

(To insure high germination, we scarify all seed)

"X-L" HI-GERMINATING WHITE SWEET CLOVER—Every year more farmers are learning the real value of some sweet clover as a dry land pasture and sure hay crop. Sweet clover is much harder than all other members of the clover and Alfalfa family. It is a biennial plant and makes a much better hay crop the second year than the first. White Sweet Clover is especially

suitable to heavy gumbo ground. It is a high and rank grower. "X-L" WHITE CLOVER is dry land Montana grown seed.

"X-L" HI-GERMINATING YELLOW SWEET CLOVER—The yellow clover does not grow as tall as the white and can be cut near the ground like Alfalfa. It makes an excellent hay as the stocks are not too coarse and very fine in texture. It is especially adapted for the higher dry lands of Montana. Sow eight to ten pounds per acre.

"X-L" HI-GERMINATING ALSIKE or SWEDISH CLOVER—This clover originated in the little province of Alsike, in Sweden. It is one of the hardiest varieties known, being perennial, and absolutely refuses to winter kill. It is alike, capable of resisting the extreme of drought or wet. It is a low growing plant and if sown for hay should be mixed with other clover, timothy, or red top. Sow 8 to 10 pounds to the acre. See price list.

"X-L" HI-GERMINATING WHITE DUTCH CLOVER—An excellent pasture clover, forming in conjunction with Kentucky Blue Grass, the finest and most nutritious food for sheep and cows. It is extremely hardy and is universally used for lawns in the Northwest. Sow 5 to 8 pounds to the acre alone for pasture; for lawn, 1 pound to 400 square feet.

"X-L" HI-GERMINATING MEDIUM RED CLOVER—This is the most popular member of the clover family and generally regarded as the most valuable. Sometimes called June Clover. It will produce two crops of hay and usually can be depended upon for a crop of hay and a crop of seed. It has the extra advantage of succeeding, under ordinary conditions, when seeded in connection with a grain crop, thus calling for very little extra labor when a clover stand is desired on the farm. It is about two weeks earlier than mammoth red clover, and is a biennial or two year crop. May be sown either in the Spring or Fall and where no other grasses are used, at the rate of 10 to 12 pounds to the acre according to quality of seed used and condition of the soil.

NITRAGIN FOR CLOVER INOCULATION—When seeding clover upon land for the first time, it is well to provide for artificial inoculation. This is accomplished by either scattering 200 to 300 lbs. of soil to the acre from some old healthy weedfree clover field or by the use of pure cultures. The soil transfer method is a very satisfactory one if properly done, but the pure-culture method has the advantages of ease of transportation and freedom from danger of introducing harmful pests upon the farm. It is endorsed and recommended by agricultural authorities and practical farmers.

The Pure Culture we sell and recommend is known under the trade title "Nitragin." It is packed in ventilated tin containers, is easy to mix with seed and easy to handle. Directions are on each package. There is a separate culture for each variety of legume, so in ordering be sure to state the crop to be inoculated. The "one bushel" size inoculates 60 lbs. of seed. Other sizes in proportion. See Page 46.



Red Top



## GRASSES

DO NOT BUY WEEDS, you can get them for nothing. In buying clovers and grasses you should buy only the best from reputable seed firms. It is very easy to get weeds in cheap grass and clover seeds.

**"X-L" HI-GERMINATING BROMUS INERMIS**—Drought defying, frost resisting. Yields enormous crops of splendid hay and affords early and abundant pasturage. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep of course, for one or two weeks in the early spring.

This grass may be sown at any time of the year when the ground is bare, but the best season is in the spring, and with or without a nurse crop. 15 pounds of good Bromus Inermis an acre is sufficient.

**"X-L" HI-GERMINATING KENTUCKY BLUE GRASS**—This makes the best, sweetest and most nutritious pasture for all kinds of stock. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires two years to get well started and for that reason it is often sown in mixture with other grasses. Sometimes called "June Grass." From 20 to 25 pounds of seed required to the acre when sown alone.

**ENGLISH or PERENNIAL RYE GRASS**—Does exceedingly well in this country, excellent for both pasture and meadows, moist and rich clay loams are the soils best suited to it. The seed is heavy and very quick to start, can be sown in spring or fall at the rate of 25 lbs., per acre.

**MEADOW FESCUE or ENGLISH BLUE GRASS**—This grass, while not as valuable as Bromus and Western Rye, is one of the hardiest grasses for the Northwest. It is an excellent permanent pasture grass, and the quality of the grass is high for feed purposes. This grass roots deeply and therefore withstands drought and heat exceptionally well. It also withstands severe cold very well. Also useful for a hay producer, growing to the height of three feet and possessing very nutritious qualities. Sow 15 to 20 pounds per acre.

**"X-L" HI-GERMINATING ORCHARD GRASS**—No farm should be without a small field of "X-L" Orchard Grass, as in many respects it is superior to all other grasses, stands the drought well, grows in the shade, does well in wet or poor ground. The grass furnishes excellent pasturage three weeks before any other and after close grazing, ten days rest is sufficient to produce another growth. It makes a very heavy sod, and when set remains for many years. It is especially adapted for winter grazing. Sow 25 to 30 pounds to the acre. See price list.

**"X-L" HI-GERMINATING RED TOP**—(Solid Seed)—A valuable grass for moist rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close. If it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass and should be more extensively grown, especially in combination with other grasses. Solid Seed Red Top is free from chaff and weighs 14 pounds to the bushel. Only ten pounds of "X-L" Brand required to the acre.

**"X-L" HI-GERMINATING TIMOTHY**—As a crop for hay, Timothy, is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture as it will in the course of a few years run out. It is, however, well adapted to early spring grazing as it starts up quickly in the spring, and in favorable fall weather can be pastured in the autumn as well.

**SAVE VALUABLE GRASS SEED**—Do not sow more seed than necessary. Uneven sowing of seed is just as wasteful as too much seed. Use a CYCLONE SEEDER. The saving in a few hours seeding will more than pay for it besides a more



Timothy

even seeding.

For Prices See Field Seed Price List.

**"X-L" HI-GERMINATING WESTERN RYE GRASS** (*Agropyrum Tenuum*) (sometimes called Slender Wheat Grass)—It affords excellent pasturage and provides large quantities of hay. It thrives on all soils, but is peculiarly adapted to prairie soils. It gives good returns on land quite strongly impregnated with alkali and fits it so that grain may be grown successfully. Twenty pounds to the acre.

**"X-L" HI-GERMINATING SUDAN GRASS**—This grass is closely related to the Cane family, but is not so coarse and yields more feed per acre, and the hay has more fattening properties. It will yield immense crops under irrigation and in rainy climates. It has found favor with the Montana farmer by its ability to withstand drought. There is no forage crop known that will resist droughts like Sudan. It is an annual and requires planting each year. We were very fortunate in obtaining a supply of Montana grown seed this year. We recommend sowing this broadcast using 10 pounds to the acre. See price list.

## BARLEY

**TREBI**—This is a rather new six-row variety which has been giving exceptionally good results in Montana, especially suited for irrigated lands. Straw of medium height and fairly stiff so that it is less likely to lodge than other varieties. Recommended especially irrigated land.

**HANNCHEN**—(Two row). One of the most popular of two-row varieties. A consistent yielder in Montana for years.

## HORN BARLEY

This is a new variety just introduced in Montana and tested at the Experimental Stations at Bozeman and Moccasin. From tests made at these stations and from individual plots, it has been proven that Horn Barley is the highest yielding of all Two Row Barleys, withstands drought and yields well in dry land, as early to mature as any of the two row barleys. We believe this new barley shall become the most popular dry land barley. See Price List.

Below we list the average yield on trial plots at Montana Agricultural stations on Horn Barley:

Station	Average Bushels		
	3 yrs.	5 yrs.	6 yrs.
Moccasin—Dry Land .....			48.9
Bozeman—Irrigated .....	73.8	72.5	

**WHITE HULLESS**—This is a six-row beardless barley which threshes out of the straw like wheat. It is a good barley for dry sections as it is very early, especially valuable for hogging off as there are no beards to bother the stock. It is also sown for early hay.

**BLUE HULLESS** (Faust Strain)—It has proven itself to be by far the highest yielding of all hulless types. An average yield of 35 to 40 bushels is very common, and the feed value of this variety is the highest of all barleys.



## BEANS

### "X-L" Hi-Germinating

**GREAT NORTHERN FIELD**—We wish each customer of ours would plant a few acres of this bean. You will always find a ready market. Montana grown beans are known the country over and always command a premium. Will yield from 500 to 1,000 lbs. per acre and sell from \$4.00 to \$7.00 per cwt. Better than summer fallow as they are grown on dry land and greatly increased yields of wheat follow a crop of beans. Our stock of this bean was grown with great success in Cascade County last season, proving that they can be grown in the Northern section of Montana. See price list.

## SEED CORN

### High Yielding, Early Maturing Montana Grown

**"X-L" HI-GERMINATING MINNESOTA 13**—Is one of the most popular varieties of corn for silage and fodder purposes in the Northwest. It is adapted, however, only to good soil and favorable conditions. It will mature in a favorable year, but is on the average somewhat too late for anything but feed in our climate. Its yield of fodder and silage is very heavy and it attains near enough to maturity so that there is much dry matter in the content. It grows to a height of from seven to nine feet, depending on the season, usually bears two large ears to a stalk, which are many-rowed and of a beautiful rich yellow color, cob is red.

**"X-L" HI-GERMINATING EXTRA EARLY MINNESOTA NO. 23 (Haney Strain)**—We consider this the earliest strain of Minnesota 13 and was developed by The International Harvester Co. on their experiment farm at Grand Forks, North Dakota. It meets the demand for a yellow dent in sections farther north where the standard Minnesota 13 is too late in maturity and where Northwestern and Minnesota 23 only were available before. It matures in 85 to 95 days and grows 5 to 7 feet high. Ears are 5 to 7 inches long, and 5 to 7 inches in circumference. Kernels are yellow and cob red with 12 to 16 rows.

## FALCONER

### "X-L" Hi-Germinating

The Highest Yielding of All Corn Varieties for the Northwest.

Every year this wonderful semi-Dent proves

more and more its very great value to the Northwest. It is earlier than any of the Dents, and hardier, being a descendant from the original native Indian corn, and it has consistently outyielded all other sorts year in and year out with us. It will grow and develop in cold weather when other more tender sorts stand still. The color is a somewhat uneven yellow, rows eight to twelve, and ears very large. Grows tall. See price list.

**"X-L" HI-GERMINATING PIONEER WHITE DENT, (Extra Early)**—Without doubt one of the best early Dents, which is not an experiment in Montana, but a tried and sure maturing corn. Stalks grow 5 and 6 ft. high with ears 24 inches from the ground. We highly recommended this variety. See price list.

**"X-L" HI-GERMINATING GEHU YELLOW FLINT**—The very earliest of flint corn producing two or three ears to the stock. For some of Montana's high altitude counties this corn is a wonder as it is drought, frost and hail resistant to a greater extent than any other variety. Its feeding qualities are the highest of any variety. See price list.

**"X-L" HI-GERMINATING WHITE FLINT**—One of the earliest of all standard varieties of flint corn. Matures in about 80 days and grows to a height of 4 to 5 feet. Especially adapted to early hogging down as the ears grow close to the ground. See price list.

**"X-L" HI-GERMINATING ELEPHANT FODDER CORN**—A medium Dent variety which has been popular because of its medium size, earlier maturity, finer and richer fodder and ease of handling through the silage cutter or when otherwise fed. It is tall growing, averaging 7 to 8 ft. It is very leafy. It has a small stalk. It will form good sized ears, thus adding to its feeding value. It is low in price. Drill in rows about 3½ feet apart, and 60 lbs. per acre.

## FLAX

We believe a great deal more of this crop should be raised by the farmers of our state. During the month of December we talked with a representative of the Archer Daniels, Midland Company, one of the largest manufacturers of Linseed Meal in the United States, and he told us that his company purchased over 70 per cent of all the flax produced in Montana during 1929 and the only complaint his company had was that we did not raise twice as much. He also stated that during the year of 1929 the Linseed people of the United States imported over 30 million bushels of flax over and above all that produced in the United States.

**"X-L" HI-GERMINATING RUSSIAN BROWN**—Prof. Bolley of the N. D. Experiment Station especially recommends "plump, bright colored seeds—because they probably grew upon strong or vigorous mother plants and are thus not likely to be internally diseased." "X-L" Brand Flax is meeting with approval throughout the Northwest. It ripens in mid-season and under favorable conditions, yields splendidly. Cleaning Flax so as to make it suitable for seed is an expensive operation, requiring special machinery, and often involves considerable waste, but we take great care to do this thoroughly. Send for sample and note its splendid quality. Sow 20 to 25 lbs., to the acre.

## MILLET

**"X-L" HI-GERMINATING EARLY FORTUNE MILLET**—A most promising variety, of which astonishing yields are reported. It is very early, and is claimed to be rust proof, and that chinch bugs will not eat the plant. The seed is of a beautiful red color and distinguished in appearance, two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives a large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching, and in other respects this variety is similar to Hog Millet except for the color of the seed.

**"X-L" HI-GERMINATING SIBERIAN or KURSK MILLET**—This is the greatest drought resistant of all millets and produces a very fine quality of hay. The seed is mostly red with some lighter mixture. It is the favorite and most planted of the extra hardy varieties. It is said to have come from Russia, which would of course give it vigor and hardiness not possessed by those originating in a warm climate.

**BROOM CORN or HOG MILLET**—This is the most common of the millets grown for seed production. The seed is an excellent feed for hogs, cattle and poultry. It is said to be very good also as a breakfast food for human consumption. The seed has very high food value. A great drought resister. Color whitish yellow.



## SEED OATS

**"X-L" HI-GERMINATING SWEDISH SELECT**—A pedigree variety introduced from Russia. Our seed is from a field that has been acclimated in Montana for the past eight years. Weighs from 35 to 45 pounds to the bushel. The straw is coarse, noted for its stiffness and power to withstand lodging. The grains are pure white in color, large thick and plump. The heads are large, upright, and bushy, they are nearly all meat, the hull being exceedingly thin, making them especially valuable as a feeding oat. Their great root development enables them to resist drought better than most other kinds. They are quite early and less liable to smut than most any other sort. Sow 50 to 60 pounds to the acre. See price list.

**"X-L" HI-GERMINATING VICTORY**—This variety matures slightly earlier than the Swedish Select. The grain is white, of medium size, short and broad. The straw is of medium height, particularly firm and elastic. It is a heavy yielding variety of thin hulled, plump white oats. Our stock this year is from a field near the mountains that has been acclimated for five years in Montana. See price list.

## Montana Grown Canadian Field Peas

### "X-L" Hi-Germinating

#### EARLY MAY

Is one of the most nourishing of foods for all kinds of stock. They are noted for their soil-enriching properties and can be grown under any conditions of soil or climate. If fed to milch cows when in a green state, pods, vines and all, the flow of milk will almost double. Yields from 20 to 30 bushels on favorable soil. Sow 60 to 75 pounds per acre in drills; 75 to 120 pounds broadcast.

**MONTANA FIELD PEAS "X-L" HI-GERMINATING**—A new variety that we are introducing this year. Excellent for table use or canning besides a wonderful stock feed. Medium early, heavy foliage, extra large pods well filled. Grows to a height of 2½ to 3½ ft. A wonderful advantage in planting field peas is that they, being a Legume plant, improve and build up the soil which will greatly increase the yield of any grain planted the following year. See price list.

## RYE

**"X-L" HI-GERMINATING SPRING RYE**—True Stock. Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season. We now offer an extra fine grade. To insure receiving enough for your requirements we advise placing your order early, as we have only a limited quantity. Sow about 1½ bushel per acre.

## SPELTZ OR EMMER

### "X-L" Hi-Germinating

**SPELTZ or EMMER**—Each succeeding year the production of Speltz increases to an enormous extent. It grows in most any soil and resists extremes of weather. Resembles rye in habit of growth, having great feeding value, being readily eaten by all kinds of livestock.

## SUN FLOWER SEED

**"X-L" HI-GERMINATING MAMMOTH RUSSIAN**—Is a wonderful producer of exceptionally fine quality silage. Will produce as high as 12 tons to the acre. It is relished by cattle. Sow in rows wide enough apart to permit cultivating between

them at the rate of 10 pounds to the acre. It is one of the best egg producing feeds for poultry and is relished by them. Single head measure 15 to 22 inches in diameter. An excellent silo feed.

## Supreme Spring Wheat

A new variety selected by Seager Wheeler of Rosthern, Canada from Red Bobs spring wheat. From tests made at Havre, Moccasin and Bozeman, Montana, we feel sure that Supreme will become the most popular spring wheat for Montana. It has proven earlier than Marquis, has a very strong straw which causes it to stand up well, kernels full, large and uniform. The highest yielder of all spring wheats. Milling and baking quality of the highest.

### Quantity of Seed to Acre

Alfalfa, .....	8 to 12 lbs.
Barley, .....	.60 to 75 lbs.
Beans, Dwarf, (1 lb. to 100 feet of drill) .....	50 lbs.
Beans, Tall, (1 lb. to 150 hills) .....	25 lbs.
Beet, Sugar, (oz. to 50 feet of drill) ..	5 lbs.
Beet, Mangel Wurzel, (1 oz., 50 ft. drill) .....	5 lbs.
Clover, Alsike .....	8 to 15 lbs.
Clover, White .....	8 to 10 lbs.
Clover, Yellow .....	8 to 10 lbs.
Corn, Sweet, (1 lb. to 200 hills) ..	8 to 12 lbs.
Corn, Field .....	8 to 12 lbs.
Corn, Fodder .....	8 to 20 lbs.
Corn, Pop .....	8 to 12 lbs.
Flax, .....	18 to 35 lbs.
Grass, Brome .....	25 lbs.
Grass, Lawn (1 lb. to 300 sq. ft) .....	80 lbs.
Grass, Kentucky Blue, Canadian Blue ..	20 lbs.
Grass, Sudan Broadcast .....	12 to 20 lbs.
Grass, Timothy .....	8 to 12 lbs.
Grass, Red Top .....	10 to 15 lbs.
Grass, Rye, Oat Grass, Fescue .....	30 lbs.
Grasses .....	20 to 30 lbs.
Grass, Orchard .....	30 lbs.
Millet .....	60 to 75 lbs.
Oats .....	60 to 75 lbs.
Peas, Garden (1 lb. to 50 feet of drill) ..	60 lbs.
Peas, Field .....	75 to 120 lbs.
Rape, Dwarf Essex .....	5 to 10 lbs.
Rye .....	60 to 80 lbs.
Sunflower .....	8 lbs.
Wheat .....	60 to 80 lbs.

Low figures for dry land seeding.

### Weight of Seed Per Bushel

Clovers	
Alfalfa .....	60 lbs.
Alsike .....	60 lbs.
Crimson .....	60 lbs.
Red .....	60 lbs.
Sweet, Hulled .....	60 lbs.
Sweet, Unhulled .....	40 lbs.
White .....	60 lbs.
Grains	
Barley .....	48 lbs.
Barley, Hulled .....	60 lbs.
Corn, Ear .....	70 lbs.
Corn, Shelled .....	56 lbs.
Oats .....	32 lbs.
Rye .....	56 lbs.
Wheat .....	60 lbs.
Grasses	
Blue .....	14 lbs.
Brome .....	14 lbs.
Orchard .....	14 lbs.
Red Top, Hulled .....	36 lbs.
Rye, English .....	25 lbs.
Rye, Italian .....	22 lbs.
Sudan .....	22 lbs.
Tall Meadow, Oat .....	14 lbs.
Timothy .....	45 lbs.
Millets	
Hog .....	50 lbs.
Hungarian .....	48 lbs.
Japanese .....	40 lbs.
Liberty .....	50 lbs.
Siberian .....	50 lbs.
White Wonder .....	50 lbs.
Miscellaneous	
Buckwheat .....	50-48 lbs.
Flax .....	56 lbs.
Peas, Smooth .....	60 lbs.
Peas, Wrinkled .....	56 lbs.
Onion Sets, Bottoms .....	32 lbs.



# Price List On "X-L" Hi-Germinating Field Seeds

**CURRENT PRICES**—The prices quoted below are opening prices and subject to market changes. If price of seed has advanced, order will be filled for amount of remittance; if lower, we shall refund the difference. All bags furnished free.

A sample of any of the seeds quoted below will be mailed free to you so that you may compare the quality with others and test for germinating if you desire.

All amounts quoted F. O. B. Great Falls. Add postage, express or freight. Parcel post rates on inside of front cover.

ALFALFA (Inoculate with Nitragin).			
	100 lbs.	50 lbs.	25 lbs.
X-L Brand .....	\$27.00	\$13.75	\$ 7.00
No. 2 Brand.....	27.00	13.75	7.00
Affidavit .....	31.00	15.75	8.00
Registered—ASK FOR PRICES.			

CLOVERS (Inoculate with Nitragin).			
	100 lbs.	50 lbs.	25 lbs.
X-L White .....	9.50	5.00	2.65
X-L Yellow .....	11.00	5.75	3.00
Common Yellow .....	9.00	4.75	2.50
X-L Alsike .....	30.00	15.25	7.75
X-L Medium .....	30.00	15.25	7.75
X-L Mammoth .....	33.00	16.75	8.50
X-L White Dutch, 50c per lb., 10 pounds or more.			

GRASSES			
	100 lbs.	50 lbs.	25 lbs.
X-L Brome .....	24.00	12.25	6.40
X-L Blue Grass .....	46.50	23.50	11.90
X-L Meadow Fescue. ....	18.00	9.50	4.90
X-L Orchard .....	23.00	11.75	6.00
X-L Red Top .....	32.00	16.50	8.40
X-L Sudan .....	12.50	6.50	3.40
X-L Timothy .....	14.00	7.50	3.90
X-L Western Rye—WRITE FOR PRICES.			
X-L English Rye ...	13.50	7.00	3.65

BARLEY			
	100 lbs.	50 lbs.	25 lbs.
X-L White Hulless...\$	2.50	\$ 1.40	\$ 0.85
X-L Blue Hulless ...	2.40	1.35	.80
X-L Chevalier .....	2.25	1.25	.70
X-L Horn .....	2.25	1.25	.70
X-L Hanchenn .....	2.25	1.25	.70

BEANS			
X-L Great Northern..	8.00	4.25	2.25
MILLET			
X-L Early Fortune..	4.50	2.50	1.40
X-L Siberian .....	6.25	3.40	1.85
X-L German .....	4.20	2.45	1.35
X-L Hog .....	5.75	3.10	1.70

OATS			
X-L Swedish Select..	2.10	1.20	.70
X-L Victory .....	2.25	1.25	.70

PEAS			
X-L Perfection .....	6.00	3.25	1.90
X-L Canadian Field—WRITE FOR PRICES.			

RAPE			
X-L Dwarf Essex ...	11.50	6.00	3.15

RYE			
X-L Spring .....	2.30	1.30	.75
X-L Winter .....	2.25	1.25	.70

SPELTZ—WRITE FOR PRICES.			
SUNFLOWER SEED... 10.00	5.25	2.75	

CORN			
	1 Bu.	½ Bu.	10 lbs.
X-L Minnesota 13...\$	4.50	\$ 2.40	\$ 1.10
X-L Minnesota 23...	4.25	2.25	1.00
X-L Falconer .....	4.25	2.25	1.00
X-L Pioneer White			
Dent .....	4.25	2.25	1.00
X-L Yellow Gehu...	3.75	2.00	.90
X-L White Flint....	4.25	2.25	1.00
X-L N. W. Dent....	4.50	2.40	1.10
X-L Elephant .....	3.60	1.95	.90

FLAX			
X-L Russian Brown..	2.25	1.35	.60
WHEAT—WRITE FOR PRICES.			

## POULTRY AND STOCK FEEDS

Prices subject to market changes and stock unsold. Full value sent for amount of remittance received. PRICES F. O. B. GREAT FALLS.

### PREPARED FEEDS

	100 lbs.	50 lbs.	25 lbs.	10 lbs.
<b>DIAMOND "G"</b>				
Chick Mash with Milk, Yeast and C. L. Oil....\$	4.00	\$ 2.15	\$ 1.15	\$0.50
Buttermilk Grow. Mash...	3.50	1.90	1.05	.45
Buttermilk Egg Mash....	3.10	1.70	.95	...
Egg Mash with Yeast...	3.30	1.80	1.00	...
Egg Mash with Yeast and C. L. Oil.....	3.50	1.90	1.05	...
Chick Scratch .....	3.40	1.85	1.00	.40
Pullet Scratch .....	3.15	1.70	.95	...
Hen Scratch .....	2.50	1.40	...	...
Common Scratch .....	2.25	1.30	...	...
<b>CERETANA</b>				
Starting Mash with Buttermilk and Cod Liver Oil .....	4.00	2.15	1.15	.50
Turkey Starter with Cod Liver Oil .....	4.00	2.15	1.15	.50
Buttermilk Growing Mash	3.50	1.90	1.05	.40
Buttermilk Growing Mash with C. L. Oil....	3.70	2.00	1.10	.45
Buttermilk Egg Mash....	3.30	1.80	1.00	...
Gallatin Special Egg Mash	2.95	1.60	.90	...
Hatcherymen and Breeders Egg Mash .....	3.60	1.95	1.05	...
Baby Chick Scratch Feed	3.50	1.90	1.05	.40
Pullet Scratch .....	3.30	1.80	1.00	.40
Hen Scratch .....	2.70	1.50	...	...
Turkey Grow-Fat and Market Finisher .....	3.15	...	...	...
Buttermilk Poultry Pen Fattener .....	3.10	...	...	...

### MISCELLANEOUS FEEDS

	100 lbs.	50 lbs.	25 lbs.	10 lbs.
Alfalfa Meal .....	\$ 2.75	\$ 1.50	\$ 0.85	\$0.40
Bone Steamed (hen, chick)	4.25	2.25	1.25	.70
Bone Meal .....	4.00	2.15	1.15	.60
Barley (Recleaned) .....	1.75	1.00	.60	.25
Barley Flour for Mashess...	2.75	1.50	.85	.35
Buttermilk (Dried) .....	10.00	5.15	2.65	1.20
Corn (No. 2 Recleaned)...	2.10	1.20	.70	...
Corn (No. 2 Steel Cut Cracked) .....	2.25	1.30	.75	...
Corn Meal (Fine).....	2.50	1.40	.80	...
Charcoal (Fine, Chick, Hen sizes) .....	4.00	2.15	1.20	.70
Calcite .....	1.60	.95	.55	.25
Cod Liver Oil (U. S. P. Grade No. 1) per gallon	2.25	...	...	...
Grit (All Sizes) .....	1.60	.95	.55	.25
Low Grade Flour.....	1.40	.85	.55	...
Lime .....	3.00	1.65	.95	.40
Meat Scraps .....	4.90	2.60	1.40	.60
Milo Maize .....	3.70	2.00	1.10	...
Oyster Shell Flakes.....	1.70	1.00	.60	...
Oyster Shell Flakes, Five or more sacks .....	1.65	...	...	...
Oats .....	1.75	.95	...	...
Oat Flour for Mashess....	2.75	1.50	.85	...
Oats, Rolled .....	4.00	2.15	1.25	...
Oat Groats .....	4.00	2.15	1.25	...
Poultry Mineral .....	3.50	1.90	1.05	.45
Rabbit Meal .....	3.00	1.65	.95	...
Rye .....	2.25	1.25	.75	...
Sunflower Seed .....	9.50	4.90	2.65	1.20
Salts (Epsom), per lb., 15c.				

DAIRY AND STOCK FEEDS

CERETANA	100 lbs.
Molasses and Home Mixed Feed.....	\$ 2.30
Molasses and Home Mixed Feed, in ton lots .....	44.00
Dairy Ration, 16 per cent.....	2.10
In ton lots.....	40.00
Econo-Milk Dairy Ration.....	2.00
Econo-Milk Dairy Ration, tons.....	38.00
Bran .....	.85
Mixed Feed .....	.85
Shorts or Middlings .....	1.00
Ground Feed (Oats, Corn, Barley), per 80-lb. sack .....	1.90
Ground Feed (Oats, Corn, Barley), per ton .....	43.00
Ground Oats and Barley.....	1.85
Ground Oats and Barley, per ton.....	35.00
Calf Meal (Ceretana) .....	5.20
Calf Meal (Ceretana), per 25-lb. sack....	1.45
Calf Meal (Blatchfords) .....	6.25
Calf Meal (Blatchfords), per 25-lb. sack..	1.75
Cotton Seed Cake .....	2.35
Cotton Seed Cake, per ton.....	43.00
Flax Meal No. 1 with oil.....	9.00
Flax Meal No. 2 with oil.....	4.00
Linseed Oil Meal (Old Process).....	3.00

	100 lbs.
Linseed Oil Meal (Old Process), per ton..	\$53.00
Lamb Meal (Ceretana).....	4.60
Lamb Meal (Ceretana), per 25-lb. sack....	1.40
Pig and Sow Meal (Ceretana).....	3.60
Pig and Sow Meal (Ceretana), per 25-lb. sack .....	1.55
Salt with iron and iodine.....	1.20
Salt with iron and iodine, per ton.....	23.00
Salt (Per 50-lb. Block).....	.85
Salt (Sulphurized 50-lb. Block).....	.90
Stock Mineral .....	4.00
Sulphur, per lb.....	.07

Ceretana Sheep and Stock Cubes

	100 lbs.
Hi-Power Molas-O-Cakes .....	\$ 2.30
Hi-Power Molas-O-Cakes, per ton.....	45.00
Hi-Power Molas-O-Cakes, 15 tons or over, delivered .....	41.00
Ceretana Molas-O-Cakes .....	2.05
Ceretana Molas-O-Cakes, per ton.....	40.00
Ceretana Molas-O-Cakes, 15 tons or over, delivered .....	36.00
Econo-Cakes .....	1.80
Econo-Cakes, per ton.....	35.00
Econo-Cakes, 15 tons or over, delivered..	31.00

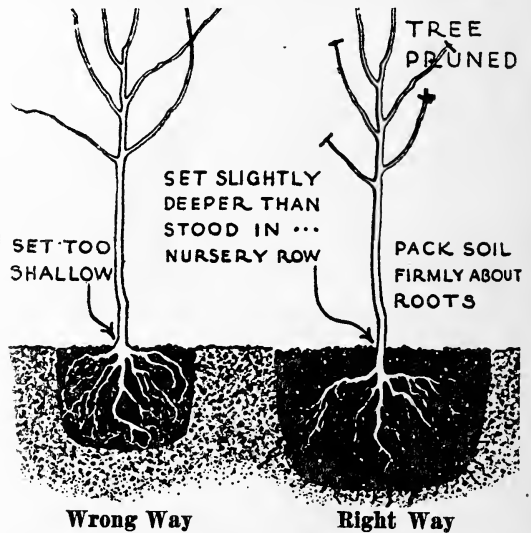
DISTANCE TO PLANT TREES

Apples .....	30 to 40 feet each way
Apples Crab .....	10 to 15 feet each way
Pears .....	20 to 30 feet each way
Pears Dwarf .....	10 to 15 feet each way
Plums .....	16 to 20 feet each way
Peaches .....	16 to 20 feet each way
Cherries .....	16 to 25 feet each way
Apricots .....	16 to 20 feet each way
Currants .....	3 to 4 feet each way
Gooseberries .....	3 to 4 feet each way
Raspberries .....	3 to 5 feet each way
Blackberries .....	6 to 7 feet each way
Grapes .....	8 to 12 feet each way

LET US HEAR FROM YOU

Our interest in your order does not end with our merely filling it correctly and sending it to you. When merchandise does not please, our customers usually let us know, but remember that we are always anxious to hear the good reports too, so if you are especially pleased with your grain, seeds, chicks, poultry supplies, pets or pet supplies, drop us a line and tell us about it. Or, better still, if you have a snap shot of your flowers, lawn, garden and chicks, send them to us. When you come to Great Falls, drop in and say hello.

How to Plant Trees and Shrubs



We wish to call particular attention to our new department, "Nursery Stock." There you will find the hardest and most attractive of all trees and shrubs. In fact, everything to make the home more attractive.

PLANTING TIME TABLE FOR VEGETABLE SEEDS IN MONTANA

Asparagus.....	March to June
Beans (All varieties).....	May
Beets (Table varieties).....	April to May
Beets (Stock).....	May
Broccoli (Hotbed).....	March
Brussels Sprouts (Hotbed).....	March
Cabbage (Early varieties, hot-bed).....	March
Cabbage (Late varieties, hot-bed).....	April
Cabbage (Late, in open).....	May
Carrots (Table varieties).....	April and May
Carrots (Stock).....	May

Cauliflower (Hotbed).....	March
Celery (Early, hotbed).....	March
Celery (Late, hotbed).....	April
Chervil.....	May to July
Cress (Pepper Grass).....	May to July
Cress (Water).....	May to July
Corn.....	May 10 to 20
Cucumbers .....	May
Endive.....	April to July
Kohl Rabi.....	May and June
Kale .....	May
Lettuce.....	April to May
Leek .....	May
Melon (Water).....	May
Melon (Musk).....	May
Onion Sets.....	March and April

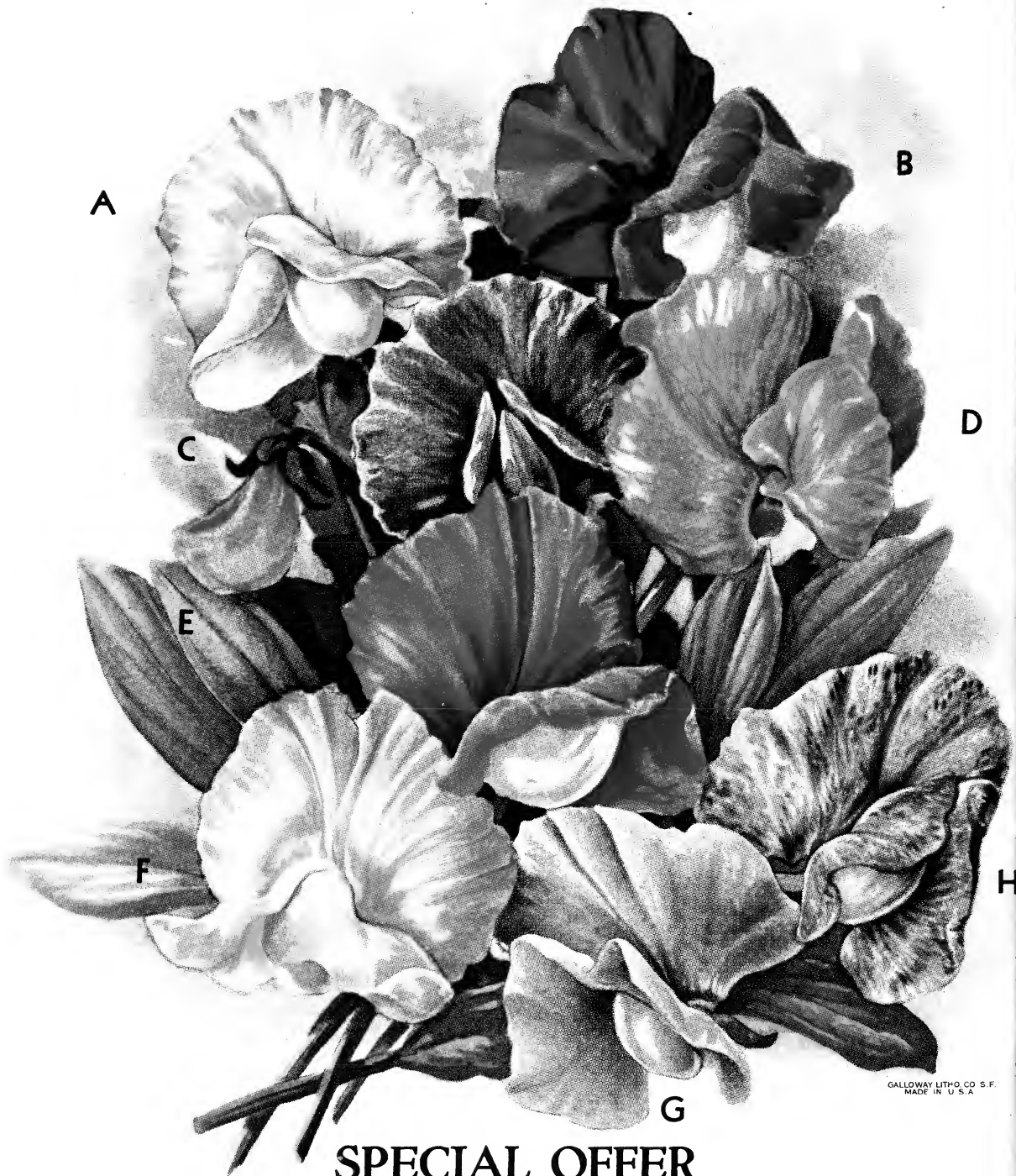
Onion Seed.....	April
Parsnip .....	April
Parsley .....	May
Peas.....	April to June
Pepper (Hotbed).....	March
Potatoes .....	May
Pumpkin .....	May
Radish .....	April to July
Rhubarb.....	May to July
Salsify.....	April to May
Spinach.....	April to August
Squash .....	May
Sunflower.....	April to May
Turnip.....	April to May
Tomato (Hotbed).....	March
Rutabaga.....	May to June

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## "X-L" SPENCER SWEET PEAS

- |                |                          |
|----------------|--------------------------|
| A. Sunkist     | E. Huntsman              |
| B. King Edward | F. Jack Hobbs            |
| C. Blue Bird   | G. Austin Fredrick       |
| D. Tangerine   | H. Lavender Geo. Herbert |



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One large 10¢ packet of each of the above named varieties postpaid for 60¢.

NOTICE—"X-L" Spencer Sweet Peas Took Every Prize Offered in the Sweet Pea Division  
at the 1930 Great Falls Flower Show  
There's A Reason

**GRAHAM & ROSS SEED & FEED CO.**  
**GREAT FALLS, MONTANA**